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ANALISIS KOMPARATIF *QUALITY OF SERVICE* (QOS)
IMPLEMENTASI JARINGAN *BROADBAND* BERBASIS
SATELIT *LOW EARTH ORBIT* (LEO) DENGAN SELULER
PADA *INTERNET OF THINGS* (IOT) *SMART FARMING*

TESIS
POLITEKNIK
NEGERI
JAKARTA

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PROGRAM STUDI MAGISTER TERAPAN TEKNIK ELEKTRO
PASCASARJANA POLITEKNIK NEGERI JAKARTA

DEPOK

JUNI 2025



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TESIS

Diajukan untuk memenuhi salah satu persyaratan mencapai derajat
Magister Terapan dalam Bidang Rekayasa Komunikasi *Broadband*

EKA HERO RAMADHANI

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PROGRAM STUDI MAGISTER TERAPAN TEKNIK ELEKTRO
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telah diuji oleh Tim Penguji dalam Sidang Tesis pada hari Jumat, 4 Juli 2025 dan dinyatakan LULUS untuk memperoleh derajat gelar Magister Terapan pada Program Studi Magister Terapan Teknik Elektro Politeknik Negeri Jakarta.

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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7. Entitas dengan kode yang tidak dapat disebutkan namanya satu per satu.



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Penulis menyadari bahwa penelitian dan penulisan Tesis ini masih belum dapat dinyatakan sempurna, karena sejatinya kesempurnaan itu hanya milik Allah. Oleh sebab itu, penulis mohon maaf atas segala kekurangan dan kekhilafan dalam penelitian maupun penulisan Tesis ini. Akhirul kalam, wabillahi taufiq wal hidayah, wassalamu'alaikum warahmatullahi wabarakatuh.

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ABSTRAK

Terdapat tiga jenis infrastruktur jaringan yang dapat mendukung konektivitas jaringan IoT pada *Smart Farming*, yaitu jaringan *broadband* berbasis kabel, seluler, dan satelit. Hanya jaringan *broadband* berbasis satelit LEO atau seluler yang cocok untuk diimplementasikan pada *Smart Farming* di lahan pertanian yang luas dan di daerah pedesaan atau pelosok. Namun, jaringan seluler di daerah pertanian yang terpencil kadang tidak memadai atau bahkan tidak tersedia. Oleh karena itu, jaringan internet *broadband* satelit LEO dapat menjadi solusi baru, sehingga perlu diteliti. Metode yang digunakan dalam penelitian ini menggunakan pendekatan metode *prototyping*, eksperimen, dan analisis komparatif. Metode *prototyping* untuk mengembangkan perangkat yang diteliti dengan mengacu SDLC. Metode eksperimen untuk pengukuran QoS jaringan *broadband* berdasarkan TIPHON untuk mengetahui nilai parameter QoS yang meliputi *throughput*, *packet loss*, *delay*, dan *jitter*. Metode analisis komparatif untuk menganalisis hasil komparasi QoS dan biaya jaringan *broadband* berbasis satelit LEO dan seluler untuk mengetahui kualitas infrastruktur jaringan mana yang lebih baik dan direkomendasikan untuk IoT *Smart Farming*. Penelitian ini telah berhasil mengimplementasi dan menganalisis QoS jaringan *broadband* berbasis satelit LEO Starlink dan seluler by.U untuk prototipe IoT *Smart Farming* pada lahan pertanian di BBPP Lembang. Hasil analisis komparatif QoS menunjukkan bahwa jaringan satelit LEO Starlink masuk kategori penilaian QoS baik (indeks 3,25) pada kondisi cuaca cerah dan penilaian QoS baik (indeks 3) pada kondisi cuaca hujan, sedangkan jaringan seluler by.U masuk kategori penilaian QoS yang juga sama yaitu baik (indeks 3) pada kondisi cuaca cerah maupun hujan. Kualitas jaringan satelit LEO Starlink akan menurun pada saat kondisi cuaca hujan, khususnya pada parameter *delay* yang nilainya semakin besar jika dibandingkan dengan jaringan seluler by.U yang relatif stabil. Hasil analisis biaya menunjukkan bahwa jaringan seluler by.U lebih unggul dan menguntungkan daripada jaringan satelit LEO Starlink.

Kata kunci: IoT *Smart Farming*, Jaringan *Broadband*, QoS, Satelit LEO, Seluler



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BAB I PENDAHULUAN

1.1 Latar Belakang

Kebutuhan pangan berupa produk pertanian saat ini semakin meningkat seiring dengan pertumbuhan populasi masyarakat dunia [1], [2]. Hasil panen diperkirakan meningkat hingga 110% untuk memenuhi kebutuhan pangan populasi dunia yang diperkirakan mencapai 9,7 miliar jiwa pada tahun 2050 [3]. Namun, tenaga kerja pada sektor pertanian di era modern ini mengalami penurunan karena sebagian besar tenaga kerja muda kurang berminat menjadi petani dan lebih memilih bekerja pada sektor manufaktur atau jasa di daerah perkotaan [4], termasuk tenaga kerja muda di Indonesia. Tidak menarik bagi kaum muda untuk bekerja di sektor pertanian yang memberikan upah rendah, jam kerja panjang dan tidak pasti, sedikit hari libur, kehidupan di daerah pedesaan yang terisolasi, dan banyak ketidakpastian [5]. Generasi muda cenderung tidak dapat menggantikan posisi petani tua yang saat ini ada sehingga menimbulkan kekhawatiran mengenai kekurangan tenaga kerja di sektor pertanian dalam beberapa dekade mendatang [6].

Untuk mengatasi persoalan itu, teknologi pintar seperti *Smart Farming* dapat menjadi solusi untuk meningkatkan produksi dan kualitas produk pertanian dengan tenaga kerja dan biaya yang minim karena mampu bekerja secara otomatis dan efektif [7], [8], [9]. *Smart Farming* adalah gagasan baru untuk mengelola pertanian menjadi lebih efisien dengan memanfaatkan teknologi modern seperti IoT [10], [11], [12], [13]. Teknologi IoT dapat meningkatkan produksi dan kualitas produk pertanian karena memungkinkan petani untuk memantau kondisi tanaman pertanian secara *real-time* dan mengendalikan peralatan pertanian dari jarak jauh [14], [15], [16]. IoT berbasis jaringan sensor nirkabel merupakan teknologi yang efisien untuk *Smart Farming* di area pertanian yang luas [17], [18], [19]. Oleh sebab itu, perlu instalasi infrastruktur jaringan internet nirkabel di area pertanian yang luas untuk mendukung IoT pada *Smart Farming*.



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Terdapat tiga jenis infrastruktur jaringan yang dapat menyediakan internet nirkabel dengan antarmuka Wi-Fi untuk mendukung konektivitas IoT pada *Smart Farming* yaitu jaringan broadband berbasis kabel [20], seluler [21], dan satelit [22]. Hanya jaringan *broadband* berbasis satelit LEO atau seluler yang cocok untuk diimplementasikan pada *Smart Farming* di lahan pertanian yang luas [23], [24], dan di daerah pedesaan [25], terpencil atau pelosok [26], [27]. Namun, jaringan seluler di daerah pertanian yang terpencil kadang tidak memadai atau bahkan tidak tersedia [28]. Oleh karena itu, jaringan internet *broadband* satelit LEO dapat menjadi solusi baru, sehingga perlu diteliti. Khususnya satelit LEO merek Starlink produk dari SpaceX [29], yang baru masuk Indonesia pada tahun 2024.

Keunggulan satelit LEO Starlink adalah dapat menyediakan akses internet di daerah yang sulit dijangkau oleh infrastruktur jaringan internet konvensional seperti kabel fiber optik dan jaringan seluler yang tidak ekonomis untuk dibangun di daerah pedesaan, pegunungan, dan pulau-pulau terpencil yang ada di Indonesia karena biaya instalasi yang tinggi dan potensi pengembalian investasi yang rendah [30]. Satelit LEO Starlink dapat menyediakan koneksi internet tanpa hambatan geografis. Pengguna hanya perlu menginstal antenna perangkat penerima sinyal satelit LEO Starlink yang dipasang dengan arah pandang langsung ke langit dan berlangganan untuk mendapatkan koneksi internet yang diklaim sebanding dengan layanan jaringan internet *broadband* di daerah perkotaan.

Oleh sebab itu, pada penelitian ini dilakukan analisis komparatif QoS implementasi jaringan *broadband* berbasis satelit LEO dengan seluler pada IoT *Smart Farming* untuk mengetahui jaringan mana yang lebih baik dan direkomendasikan untuk IoT *Smart Farming*. Metode yang digunakan dalam penelitian ini terdiri dari *prototyping*, eksperimen, dan analisis komparatif. Metode *prototyping* mengacu *System Development Life Cycle* (SDLC) [31]. Metode eksperimen untuk mengukur QoS jaringan *broadband* dengan berdasarkan parameter QoS pada *Telecommunications and Internet Protocol Harmonization Over Networks* (TIPHON) [32]. Analisis komparatif untuk



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mengetahui QoS infrastruktur jaringan mana yang lebih baik. Selain itu, analisis biaya infrastruktur jaringan *broadband* berbasis satelit LEO dan seluler juga dilakukan. Hasil dari penelitian ini nantinya diharapkan dapat menjadi bahan rekomendasi untuk para pemangku kepentingan seperti petani, pemerintah di bidang pertanian, pengusaha, atau peneliti dalam menentukan infrastruktur jaringan *broadband* yang tepat untuk IoT *Smart Farming*.

1.2 Rumusan Masalah

Rumusan masalah penelitian ini adalah sebagai berikut:

- a. Bagaimana implementasi jaringan *broadband* berbasis satelit LEO dan seluler untuk IoT *Smart Farming*?
- b. Bagaimana analisis komparatif QoS jaringan *broadband* berbasis seluler dengan satelit LEO pada IoT *Smart Farming*?
- c. Bagaimana analisis komparatif biaya infrastruktur jaringan *broadband* berbasis satelit LEO dengan seluler untuk IoT *Smart Farming*?

1.3 Tujuan Penelitian

Tujuan dari penelitian ini adalah melakukan analisis komparatif QoS dan biaya implementasi jaringan *broadband* berbasis satelit LEO dengan seluler pada IoT *Smart Farming* untuk mengetahui infrastruktur jaringan mana yang lebih baik dan direkomendasikan untuk IoT *Smart Farming*.

1.4 Batasan Penelitian

Berikut batasan-batasan dalam penelitian ini:

- a. Perangkat IoT *Smart Farming* yang digunakan sebagai *use case* untuk eksperimen penelitian ini berupa IoT berbasis jaringan sensor nirkabel sistem irigasi otomatis dilengkapi sistem pemantauan temperatur dan kelembapan udara lingkungan pertanian tanaman selada di lahan pertanian Balai Besar Pelatihan Pertanian (BBPP) Lembang, Bandung Barat.
- b. Protokol komunikasi jaringan yang digunakan untuk IoT dalam penelitian ini adalah protokol *Message Queuing Telemetry Transport* (MQTT).



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- c. Platform yang digunakan untuk pemantauan, pencatatan, dan broker MQTT komunikasi IoT dalam penelitian ini adalah Telkom IoT Platform.
- d. Infrastruktur jaringan *broadband* berbasis satelit LEO yang digunakan untuk eksperimen dalam penelitian ini adalah Starlink produk SpaceX.
- e. Infrastruktur jaringan *broadband* berbasis seluler yang digunakan untuk eksperimen dalam penelitian ini dari operator by.U produk Telkomsel.
- f. Analisis QoS jaringan berdasarkan parameter QoS pada TIPHON.
- g. Lokasi eksperimen di daerah pertanian yang tidak terdapat infrastruktur jaringan internet kabel yaitu di area lahan pertanian BBPP Lembang.

1.5 Manfaat Penelitian

1.5.1 Manfaat Teoritis

Tersedia hasil analisis komparatif QoS dan biaya jaringan *broadband* berbasis satelit LEO dengan seluler pada IoT *Smart Farming* yang dapat menjadi bahan rekomendasi dalam menentukan infrastruktur jaringan *broadband* yang tepat dan lebih baik untuk IoT *Smart Farming* di daerah pertanian yang sulit terjangkau jaringan internet kabel.

1.5.2 Manfaat Praktis

Tersedia prototipe IoT *Smart Farming* berupa sistem irigasi otomatis menggunakan protokol MQTT dari Telkom IoT Platform dilengkapi sensor temperatur dan kelembapan udara lingkungan pertanian dengan konektivitas ke jaringan *broadband* berbasis satelit LEO atau seluler.

1.6 Sistematika Penyajian

- Bab I : Pendahuluan
- Bab II : Tinjauan Pustaka
- Bab III : Metodologi Penelitian
- Bab IV : Hasil dan Pembahasan
- Bab V : Kesimpulan dan Saran

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BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berikut kesimpulan hasil dari penelitian ini:

1. Penelitian ini berawal dari adanya kebutuhan implementasi dan analisis jaringan internet *broadband* untuk aplikasi IoT *Smart Farming* berbasis jaringan sensor nirkabel berupa sistem irigasi otomatis di lahan pertanian terbuka di daerah pedesaan atau pelosok.
2. Metode yang digunakan dalam penelitian ini meliputi metode *prototyping*, metode eksperimen, dan metode analisis komparatif.
3. Infrastruktur jaringan *broadband* yang diimplementasikan dan dianalisis dalam penelitian ini adalah jaringan satelit LEO Starlink dari SpaceX dan jaringan seluler by.U dari Telkomsel.
4. Analisis QoS jaringan berdasarkan parameter QoS pada TIPHON dan analisis biaya menggunakan pendekatan analisis NPV.
5. Lokasi penelitian ini di lahan pertanian tanaman selada di BBPP Lembang dan dilaksanakan pada waktu siang hari dengan kondisi cuaca cerah serta pada waktu sore hari dengan kondisi cuaca hujan.
6. Penelitian ini telah berhasil mengimplementasi dan menganalisis QoS jaringan *broadband* berbasis satelit LEO Starlink dan seluler by.U untuk prototipe IoT *Smart Farming* sistem irigasi otomatis pada lahan pertanian tanaman selada di BBPP Lembang.
7. Hasil analisis komparatif QoS menunjukkan bahwa jaringan satelit LEO Starlink masuk kategori penilaian QoS **baik** (indeks 3,25) pada kondisi cuaca cerah dan penilaian QoS **baik** (indeks 3) pada kondisi cuaca hujan, sedangkan jaringan seluler by.U masuk kategori penilaian QoS yang juga sama yaitu **baik** (indeks 3) pada kondisi cuaca cerah maupun hujan. Kualitas jaringan satelit LEO Starlink akan menurun pada saat kondisi cuaca hujan, khususnya pada parameter *delay* yang nilainya semakin besar jika dibandingkan dengan jaringan seluler by.U yang relatif stabil.



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8. Hasil analisis biaya menunjukkan bahwa jaringan seluler by.U lebih unggul dan menguntungkan daripada jaringan satelit LEO Starlink untuk lahan pertanian tanaman selada di BBPP Lembang berdasarkan hasil perhitungan NPV dan *Payback Period* dalam penelitian ini.
9. Hasil dari penelitian ini telah diajukan dan dinyatakan diterima untuk dipublikasikan pada JIPI Jurnal Nasional yang terakreditasi Sinta 3 dengan judul artikel ilmiah “*QoS Analysis of LEO Satellite Broadband Network for IoT in Smart Farming*”.

5.2 Saran

Hasil penelitian ini dapat menjadi rujukan untuk diteliti lebih lanjut dengan beberapa saran sebagai berikut:

1. Dikembangkan dalam penelitian dengan berbagai *use case* seperti IoT pada *Smart Fisheries*, *Smart Forestry*, *Smart Rivers*, dll. sesuai tujuan penggunaan jaringan *broadband* satelit LEO atau seluler.
2. Lokasi yang digunakan untuk eksperimen dalam penelitian lebih lanjut dapat berada di pegunungan, hutan, gurun, kepulauan, kutub, atau daerah yang sulit dijangkau oleh infrastruktur jaringan internet terrestrial.
3. Kegiatan eksperimen dapat dilakukan dengan berbagai skenario kondisi cuaca, seperti cerah, berawan, gerimis, hujan sedang, dan hujan lebat.
4. Kegiatan eksperimen dilakukan dengan variasi waktu, seperti pagi, siang, sore, malam, atau dini hari dalam rentang waktu tertentu.
5. Penelitian lebih lanjut juga dapat melakukan analisis komparatif QoS dengan infrastruktur jaringan *broadband* terrestrial dari penyedia lain atau jaringan internet satelit dari produk atau merek lain.



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LAMPIRAN

Lampiran 1 Kode Program IoT *Smart Farming*

Perangkat Sensor IoT Sistem Irigasi Otomatis

```
#include <ESP8266WiFi.h>
#define WIFI_SSID "ssid"
#define WIFI_PASSWORD "password"
void connectToWiFi() {
    WiFi.begin(WIFI_SSID, WIFI_PASSWORD);
    while (WiFi.status() != WL_CONNECTED) {
        delay(1000);
    }
}
WiFiClient espClient;
#include <PubSubClient.h>
#define MQTT_BROKER "mqtt.telkomiot.id"
#define MQTT_PORT 1883
#define MQTT_TOPIC "v2.0/pubs/APP67b1fd2e98f1818831/DEV67b20715ea29585166"
#define CLIENT_ID "DEV67b20715ea29585166 - Perangkat Sensor 1"
#define ACCESS_KEY "1950fb2a6b5be5ec"
#define ACCESS_TOKEN "1950fb2a6b7b66ce"
PubSubClient client(espClient);
void connectToMQTT() {
    client.setServer(MQTT_BROKER, MQTT_PORT);
    while (!client.connected() && !client.connect(CLIENT_ID, ACCESS_KEY, ACCESS_TOKEN)) {
        delay(1000);
    }
}
#include <WiFiUdp.h>
WiFiUDP ntpUDP;
#include <NTPClient.h>
NTPClient timeClient(ntpUDP, "pool.ntp.org", 25200, 60000); // UTC+7 GMT+7 WIB
const char* month[] = { "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec" };
String getTimestamp() {
    timeClient.update();
    time_t rawTime = timeClient.getEpochTime();
    struct tm timeInfo;
    localtime_r(&rawTime, &timeInfo);
    char buffer[30];
    sprintf(buffer, "%02d %s %04d %02d:%02d:%03lu",
        timeInfo.tm_mday, month[timeInfo.tm_mon], timeInfo.tm_year + 1900,
        timeInfo.tm_hour, timeInfo.tm_min, timeInfo.tm_sec, millis() % 1000);
    return String(buffer);
}
#include <DHT.h>
#define DHT_PIN D1
#define DHT_TYPE DHT22
DHT dht(DHT_PIN, DHT_TYPE);
#define ADC_PIN A0 // Pin input ADC Sensor Kelembapan Tanah Kapasitif (SKTK)
#define DRY_VALUE 650 // Nilai ADC saat tanah kering
#define WET_VALUE 350 // Nilai ADC saat tanah basah
int getAverageADC(int samples) {
    int total = 0;
    for (int i = 0; i < samples; i++) {
        total += analogRead(ADC_PIN);
    }
    return total / samples;
}
int readSKTK() {
    int ADC_AVG = getAverageADC(10); // Mengambil nilai rata-rata ADC dari 10 sampel
    int moisture = map(ADC_AVG, DRY_VALUE, WET_VALUE, 0, 100);
    moisture = constrain(moisture, 0, 100);
    return moisture;
}
#define LED_PIN D0 // Pin LED biru di ESP8266 ESP-WROOM-02
int packetNumber = 1; // Inisialisasi nomor paket pertama
void pubToMQTT() {
```




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```
digitalWrite(LED_PIN, LOW); // LED biru menyala saat mengirim data
if (!client.connected()) {
    connectToMQTT();
}
// Data sensor DHT22
float Temperature = dht.readTemperature();
float Humidity = dht.readHumidity();
// Data nilai SKTK
int ADC_AVG = getAverageADC(10);
int SKTK_VALUE = readSKTK();
String Timestamp = getTimestamp();
String payload = "{";
payload += "\"nomorPaket\":" + String(packetNumber) + ",";
payload += "\"timestamp\":" + Timestamp + ",";
payload += "\"temperaturUdara\":" + String(Temperature) + ",";
payload += "\"kelembapanUdara\":" + String(Humidity) + ",";
payload += "\"kelembapanTanah\":" + String(SKTK_VALUE) + ",";
payload += "\"nilaiADC\":" + String(ADC_AVG);
int payloadSize = payload.length() + 19; // + 19 untuk char ,\"ukuranPaket\":"x}
payload += "\",\"ukuranPaket\":" + String(payloadSize);
payload += "}";
client.publish(MQTT_TOPIC, payload.c_str());
Serial.println("Kirim: " + payload);
digitalWrite(LED_PIN, HIGH); // LED biru mati setelah mengirim data
}

void setup() {
    connectToWiFi();
    timeClient.begin();
    connectToMQTT();
    dht.begin();
    pinMode(LED_PIN, OUTPUT);
    Serial.begin(115200);
}

void loop() {
    pubToMQTT();
    packetNumber++;
    delay(1000);
}
```

Perangkat Aktuator IoT Sistem Irigasi Otomatis

```
#include <ESP8266WiFi.h>
#define WIFI_SSID "ssid"
#define WIFI_PASSWORD "password"
void connectToWiFi() {
    WiFi.begin(WIFI_SSID, WIFI_PASSWORD);
    while (WiFi.status() != WL_CONNECTED) {
        delay(1000);
    }
}

WiFiClient espClient;
#include <PubSubClient.h>
#define MQTT_BROKER "mqtt.telkomiot.id"
#define MQTT_PORT 1883
#define MQTT_TOPIC "v2.0/subs/APP67b1fd2e98f1818831/DEV67b20715ea29585166"
#define CLIENT_ID "DEV67b20715ea29585166 - Perangkat Aktuator 1"
#define ACCESS_KEY "1950fb2a6b5be5ec"
#define ACCESS_TOKEN "1950fb2a6b7b66ce"
PubSubClient client(espClient);

void connectToMQTT() {
    client.setServer(MQTT_BROKER, MQTT_PORT);
    while (!client.connected() && !client.connect(CLIENT_ID, ACCESS_KEY, ACCESS_TOKEN)) {
        delay(1000);
    }
    client.subscribe(MQTT_TOPIC);
    client.setCallback(callback);
}

#define LED_PIN D0 // Pin LED biru di ESP8266 ESP-WROOM-02
#define RELAY_PIN D1 // Pin relay di ESP8266 ESP-WROOM-02
#include <ArduinoJson.h>
void callback(char* topic, byte* payload, unsigned int length) {
```



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```
digitalWrite(LED_PIN, LOW); // LED biru menyala saat menerima data
String message = String((char*)payload);
Serial.println("Terima: " + message);
StaticJsonDocument<256> doc;
DeserializationError error = deserializeJson(doc, message);
if (error) {
    return;
}
int moisture = doc["kelembapanTanah"];
// Logika kontrol relay
if (moisture < 60) {
    digitalWrite(LED_PIN, LOW);
    digitalWrite(RELAY_PIN, HIGH);
} else {
    digitalWrite(LED_PIN, HIGH);
    digitalWrite(RELAY_PIN, LOW);
}
digitalWrite(LED_PIN, HIGH); // LED biru mati setelah menerima data
}

void setup() {
    connectToWifi();
    connectToMQTT();
    pinMode(LED_PIN, OUTPUT);
    pinMode(RELAY_PIN, OUTPUT);
    Serial.begin(115200);
}

void loop() {
    if (!client.connected()) {
        connectToMQTT();
    }
    client.loop();
}
```

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Lampiran 2 Data Serial Monitor Hasil Eksperimen Penelitian Ini

Data hasil eksperimen pertama jaringan satelit LEO Starlink pada waktu siang hari dengan kondisi cuaca cerah

Perangkat Sensor	
14-02:21.340 -> Kiri: {"nomorPaket":1,"timestamp":"24 Mar 2025 14:02:21.185","temperaturUdara":26.88,"kelembapanTanah":0,"nilaiAOC":688,"ukuranPaket":156}	
14-02:22.346 -> Kiri: {"nomorPaket":2,"timestamp":"24 Mar 2025 14:02:22.194","temperaturUdara":26.88,"kelembapanTanah":0,"nilaiAOC":716,"ukuranPaket":156}	
14-02:23.364 -> Kiri: {"nomorPaket":3,"timestamp":"24 Mar 2025 14:02:23.209","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":712,"ukuranPaket":156}	
14-02:24.364 -> Kiri: {"nomorPaket":4,"timestamp":"24 Mar 2025 14:02:24.219","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":728,"ukuranPaket":156}	
14-02:25.361 -> Kiri: {"nomorPaket":5,"timestamp":"24 Mar 2025 14:02:25.234","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":714,"ukuranPaket":156}	
14-02:26.399 -> Kiri: {"nomorPaket":6,"timestamp":"24 Mar 2025 14:02:26.243","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":717,"ukuranPaket":156}	
14-02:27.396 -> Kiri: {"nomorPaket":7,"timestamp":"24 Mar 2025 14:02:27.258","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":716,"ukuranPaket":156}	
14-02:28.403 -> Kiri: {"nomorPaket":8,"timestamp":"24 Mar 2025 14:02:28.266","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":747,"ukuranPaket":156}	
14-02:29.414 -> Kiri: {"nomorPaket":9,"timestamp":"24 Mar 2025 14:02:29.280","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":156}	
14-02:30.439 -> Kiri: {"nomorPaket":10,"timestamp":"24 Mar 2025 14:02:30.293","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":749,"ukuranPaket":157}	
14-02:31.442 -> Kiri: {"nomorPaket":11,"timestamp":"24 Mar 2025 14:02:31.306","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:32.454 -> Kiri: {"nomorPaket":12,"timestamp":"24 Mar 2025 14:02:32.313","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":746,"ukuranPaket":157}	
14-02:33.466 -> Kiri: {"nomorPaket":13,"timestamp":"24 Mar 2025 14:02:33.336","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":717,"ukuranPaket":157}	
14-02:34.495 -> Kiri: {"nomorPaket":14,"timestamp":"24 Mar 2025 14:02:34.348","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":729,"ukuranPaket":157}	
14-02:35.502 -> Kiri: {"nomorPaket":15,"timestamp":"24 Mar 2025 14:02:35.363","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:36.540 -> Kiri: {"nomorPaket":16,"timestamp":"24 Mar 2025 14:02:36.375","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":749,"ukuranPaket":157}	
14-02:37.547 -> Kiri: {"nomorPaket":17,"timestamp":"24 Mar 2025 14:02:37.388","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":749,"ukuranPaket":157}	
14-02:38.570 -> Kiri: {"nomorPaket":18,"timestamp":"24 Mar 2025 14:02:38.399","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":745,"ukuranPaket":157}	
14-02:39.555 -> Kiri: {"nomorPaket":19,"timestamp":"24 Mar 2025 14:02:39.414","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":747,"ukuranPaket":157}	
14-02:40.560 -> Kiri: {"nomorPaket":20,"timestamp":"24 Mar 2025 14:02:40.426","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":749,"ukuranPaket":157}	
14-02:41.568 -> Kiri: {"nomorPaket":21,"timestamp":"24 Mar 2025 14:02:41.440","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":747,"ukuranPaket":157}	
14-02:42.583 -> Kiri: {"nomorPaket":22,"timestamp":"24 Mar 2025 14:02:42.451","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":734,"ukuranPaket":157}	
14-02:43.602 -> Kiri: {"nomorPaket":23,"timestamp":"24 Mar 2025 14:02:43.465","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:44.640 -> Kiri: {"nomorPaket":24,"timestamp":"24 Mar 2025 14:02:44.476","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:45.633 -> Kiri: {"nomorPaket":25,"timestamp":"24 Mar 2025 14:02:45.490","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":709,"ukuranPaket":157}	
14-02:46.660 -> Kiri: {"nomorPaket":26,"timestamp":"24 Mar 2025 14:02:46.501","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":749,"ukuranPaket":157}	
14-02:47.666 -> Kiri: {"nomorPaket":27,"timestamp":"24 Mar 2025 14:02:47.518","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":712,"ukuranPaket":157}	
14-02:48.655 -> Kiri: {"nomorPaket":28,"timestamp":"24 Mar 2025 14:02:48.528","temperaturUdara":27.00,"kelembapanTanah":0,"nilaiAOC":714,"ukuranPaket":157}	
14-02:49.671 -> Kiri: {"nomorPaket":29,"timestamp":"24 Mar 2025 14:02:49.544","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":712,"ukuranPaket":157}	
14-02:50.712 -> Kiri: {"nomorPaket":30,"timestamp":"24 Mar 2025 14:02:50.553","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:51.708 -> Kiri: {"nomorPaket":31,"timestamp":"24 Mar 2025 14:02:51.569","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":743,"ukuranPaket":157}	
14-02:52.723 -> Kiri: {"nomorPaket":32,"timestamp":"24 Mar 2025 14:02:52.583","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":726,"ukuranPaket":157}	
14-02:53.738 -> Kiri: {"nomorPaket":33,"timestamp":"24 Mar 2025 14:02:53.599","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":747,"ukuranPaket":157}	
14-02:54.776 -> Kiri: {"nomorPaket":34,"timestamp":"24 Mar 2025 14:02:54.609","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":748,"ukuranPaket":157}	
14-02:55.759 -> Kiri: {"nomorPaket":35,"timestamp":"24 Mar 2025 14:02:55.624","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":721,"ukuranPaket":157}	
14-02:56.765 -> Kiri: {"nomorPaket":36,"timestamp":"24 Mar 2025 14:02:56.635","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":737,"ukuranPaket":157}	
14-02:57.799 -> Kiri: {"nomorPaket":37,"timestamp":"24 Mar 2025 14:02:57.651","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":693,"ukuranPaket":157}	
14-02:58.791 -> Kiri: {"nomorPaket":38,"timestamp":"24 Mar 2025 14:02:58.661","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":694,"ukuranPaket":157}	
14-02:59.814 -> Kiri: {"nomorPaket":39,"timestamp":"24 Mar 2025 14:02:59.676","temperaturUdara":26.90,"kelembapanTanah":0,"nilaiAOC":735,"ukuranPaket":157}	



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14-03:00.822 -> Kiri:m: {"nomorPaket":40,"times tamp":"24 Mar 2025 14:03:00.687","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":740,"ukuranPaket":157}
14-03:01.859 -> Kiri:m: {"nomorPaket":41,"times tamp":"24 Mar 2025 14:03:01.709","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":700,"ukuranPaket":157}
14-03:02.842 -> Kiri:m: {"nomorPaket":42,"times tamp":"24 Mar 2025 14:03:02.714","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":739,"ukuranPaket":157}
14-03:03.868 -> Kiri:m: {"nomorPaket":43,"times tamp":"24 Mar 2025 14:03:03.729","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":736,"ukuranPaket":157}
14-03:04.881 -> Kiri:m: {"nomorPaket":44,"times tamp":"24 Mar 2025 14:03:04.742","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:05.887 -> Kiri:m: {"nomorPaket":45,"times tamp":"24 Mar 2025 14:03:05.756","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":713,"ukuranPaket":157}
14-03:06.931 -> Kiri:m: {"nomorPaket":46,"times tamp":"24 Mar 2025 14:03:06.769","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":714,"ukuranPaket":157}
14-03:07.946 -> Kiri:m: {"nomorPaket":47,"times tamp":"24 Mar 2025 14:03:07.785","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":712,"ukuranPaket":157}
14-03:08.922 -> Kiri:m: {"nomorPaket":48,"times tamp":"24 Mar 2025 14:03:08.799","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:09.936 -> Kiri:m: {"nomorPaket":49,"times tamp":"24 Mar 2025 14:03:09.808","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:10.947 -> Kiri:m: {"nomorPaket":50,"times tamp":"24 Mar 2025 14:03:10.821","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":684,"ukuranPaket":157}
14-03:12.010 -> Kiri:m: {"nomorPaket":51,"times tamp":"24 Mar 2025 14:03:11.848","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":716,"ukuranPaket":157}
14-03:13.011 -> Kiri:m: {"nomorPaket":52,"times tamp":"24 Mar 2025 14:03:12.855","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":679,"ukuranPaket":157}
14-03:14.025 -> Kiri:m: {"nomorPaket":53,"times tamp":"24 Mar 2025 14:03:13.872","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:15.026 -> Kiri:m: {"nomorPaket":54,"times tamp":"24 Mar 2025 14:03:14.890","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":716,"ukuranPaket":157}
14-03:16.036 -> Kiri:m: {"nomorPaket":55,"times tamp":"24 Mar 2025 14:03:15.908","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":712,"ukuranPaket":157}
14-03:17.067 -> Kiri:m: {"nomorPaket":56,"times tamp":"24 Mar 2025 14:03:16.911","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":716,"ukuranPaket":157}
14-03:18.054 -> Kiri:m: {"nomorPaket":57,"times tamp":"24 Mar 2025 14:03:17.922","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:19.068 -> Kiri:m: {"nomorPaket":58,"times tamp":"24 Mar 2025 14:03:18.936","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":746,"ukuranPaket":157}
14-03:20.085 -> Kiri:m: {"nomorPaket":59,"times tamp":"24 Mar 2025 14:03:19.951","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:21.119 -> Kiri:m: {"nomorPaket":60,"times tamp":"24 Mar 2025 14:03:20.965","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:22.276 -> Kiri:m: {"nomorPaket":61,"times tamp":"24 Mar 2025 14:03:22.101","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":713,"ukuranPaket":157}
14-03:23.257 -> Kiri:m: {"nomorPaket":62,"times tamp":"24 Mar 2025 14:03:23.110","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:24.253 -> Kiri:m: {"nomorPaket":63,"times tamp":"24 Mar 2025 14:03:24.127","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":716,"ukuranPaket":157}
14-03:25.273 -> Kiri:m: {"nomorPaket":64,"times tamp":"24 Mar 2025 14:03:25.139","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:26.285 -> Kiri:m: {"nomorPaket":65,"times tamp":"24 Mar 2025 14:03:26.154","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:27.331 -> Kiri:m: {"nomorPaket":66,"times tamp":"24 Mar 2025 14:03:27.168","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":715,"ukuranPaket":157}
14-03:28.319 -> Kiri:m: {"nomorPaket":67,"times tamp":"24 Mar 2025 14:03:28.189","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:29.323 -> Kiri:m: {"nomorPaket":68,"times tamp":"24 Mar 2025 14:03:29.199","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:30.366 -> Kiri:m: {"nomorPaket":69,"times tamp":"24 Mar 2025 14:03:30.208","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:31.350 -> Kiri:m: {"nomorPaket":70,"times tamp":"24 Mar 2025 14:03:31.222","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":746,"ukuranPaket":157}
14-03:32.368 -> Kiri:m: {"nomorPaket":71,"times tamp":"24 Mar 2025 14:03:32.236","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:33.413 -> Kiri:m: {"nomorPaket":72,"times tamp":"24 Mar 2025 14:03:33.247","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":739,"ukuranPaket":157}
14-03:34.392 -> Kiri:m: {"nomorPaket":73,"times tamp":"24 Mar 2025 14:03:34.265","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":715,"ukuranPaket":157}
14-03:35.436 -> Kiri:m: {"nomorPaket":74,"times tamp":"24 Mar 2025 14:03:35.276","temperaturUdara":26.90,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:36.419 -> Kiri:m: {"nomorPaket":75,"times tamp":"24 Mar 2025 14:03:36.291","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:37.451 -> Kiri:m: {"nomorPaket":76,"times tamp":"24 Mar 2025 14:03:37.301","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:38.442 -> Kiri:m: {"nomorPaket":77,"times tamp":"24 Mar 2025 14:03:38.316","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:39.477 -> Kiri:m: {"nomorPaket":78,"times tamp":"24 Mar 2025 14:03:39.327","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}
14-03:40.497 -> Kiri:m: {"nomorPaket":79,"times tamp":"24 Mar 2025 14:03:40.341","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":750,"ukuranPaket":157}
14-03:41.510 -> Kiri:m: {"nomorPaket":80,"times tamp":"24 Mar 2025 14:03:41.352","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:42.505 -> Kiri:m: {"nomorPaket":81,"times tamp":"24 Mar 2025 14:03:42.368","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":748,"ukuranPaket":157}
14-03:43.552 -> Kiri:m: {"nomorPaket":82,"times tamp":"24 Mar 2025 14:03:43.378","temperaturUdara":27.00,"kelambapanTahan":0,"nilaiADC":717,"ukuranPaket":157}
14-03:44.542 -> Kiri:m: {"nomorPaket":83,"times tamp":"24 Mar 2025 14:03:44.393","temperaturUdara":27.10,"kelambapanTahan":0,"nilaiADC":747,"ukuranPaket":157}
14-03:45.568 -> Kiri:m: {"nomorPaket":84,"times tamp":"24 Mar 2025 14:03:45.403","temperaturUdara":27.10,"kelambapanTahan":0,"nilaiADC":749,"ukuranPaket":157}



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14-03:46:564 -> Kirim: {"nomorPaket":85,"timestamp":"24 Mar 2025 14:03:46:418","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":747,"ukuranPaket":157}
14-03:47:591 -> Kirim: {"nomorPaket":86,"timestamp":"24 Mar 2025 14:03:47:431","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":157}
14-03:48:579 -> Kirim: {"nomorPaket":87,"timestamp":"24 Mar 2025 14:03:48:446","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":157}
14-03:49:618 -> Kirim: {"nomorPaket":88,"timestamp":"24 Mar 2025 14:03:49:445","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":738,"ukuranPaket":157}
14-03:50:617 -> Kirim: {"nomorPaket":89,"timestamp":"24 Mar 2025 14:03:50:471","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":732,"ukuranPaket":157}
14-03:51:610 -> Kirim: {"nomorPaket":90,"timestamp":"24 Mar 2025 14:03:51:483","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":739,"ukuranPaket":157}
14-03:52:634 -> Kirim: {"nomorPaket":91,"timestamp":"24 Mar 2025 14:03:52:498","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":729,"ukuranPaket":157}
14-03:53:672 -> Kirim: {"nomorPaket":92,"timestamp":"24 Mar 2025 14:03:53:512","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":673,"ukuranPaket":157}
14-03:54:688 -> Kirim: {"nomorPaket":93,"timestamp":"24 Mar 2025 14:03:54:928","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":736,"ukuranPaket":157}
14-03:55:680 -> Kirim: {"nomorPaket":94,"timestamp":"24 Mar 2025 14:03:55:943","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":701,"ukuranPaket":157}
14-03:56:723 -> Kirim: {"nomorPaket":95,"timestamp":"24 Mar 2025 14:03:56:558","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":737,"ukuranPaket":157}
14-03:57:706 -> Kirim: {"nomorPaket":96,"timestamp":"24 Mar 2025 14:03:57:571","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":740,"ukuranPaket":157}
14-03:58:739 -> Kirim: {"nomorPaket":97,"timestamp":"24 Mar 2025 14:03:58:886","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":738,"ukuranPaket":157}
14-03:59:759 -> Kirim: {"nomorPaket":98,"timestamp":"24 Mar 2025 14:03:59:596","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":157}
14-04:00:745 -> Kirim: {"nomorPaket":99,"timestamp":"24 Mar 2025 14:04:00:611","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":747,"ukuranPaket":157}
14-04:01:763 -> Kirim: {"nomorPaket":100,"timestamp":"24 Mar 2025 14:04:01:626","temperaturUdara":27.10,"kelompokTanah":0,"nilaiAOC":715,"ukuranPaket":158}

[Perangkat Aktuator]
14-02:21:406 -> Terima: {"nomorPaket":1,"timestamp":"24 Mar 2025 14:02:21:385","temperaturUdara":26.8,"kelompokTanah":0,"nilaiAOC":658,"ukuranPaket":15638}
14-02:22:440 -> Terima: {"nomorPaket":2,"timestamp":"24 Mar 2025 14:02:22:194","temperaturUdara":26.8,"kelompokTanah":0,"nilaiAOC":716,"ukuranPaket":15638}
14-02:23:442 -> Terima: {"nomorPaket":3,"timestamp":"24 Mar 2025 14:02:23:209","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":712,"ukuranPaket":15638}
14-02:24:436 -> Terima: {"nomorPaket":4,"timestamp":"24 Mar 2025 14:02:24:219","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":720,"ukuranPaket":15638}
14-02:25:437 -> Terima: {"nomorPaket":5,"timestamp":"24 Mar 2025 14:02:25:234","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":714,"ukuranPaket":15638}
14-02:26:445 -> Terima: {"nomorPaket":6,"timestamp":"24 Mar 2025 14:02:26:243","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":717,"ukuranPaket":15638}
14-02:27:467 -> Terima: {"nomorPaket":7,"timestamp":"24 Mar 2025 14:02:27:258","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":716,"ukuranPaket":15638}
14-02:28:478 -> Terima: {"nomorPaket":8,"timestamp":"24 Mar 2025 14:02:28:266","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":747,"ukuranPaket":15638}
14-02:29:513 -> Terima: {"nomorPaket":9,"timestamp":"24 Mar 2025 14:02:29:288","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":15638}
14-02:30:544 -> Terima: {"nomorPaket":10,"timestamp":"24 Mar 2025 14:02:30:291","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":15733}
14-02:32:545 -> Terima: {"nomorPaket":11,"timestamp":"24 Mar 2025 14:02:32:317","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":15733}
14-02:33:557 -> Terima: {"nomorPaket":12,"timestamp":"24 Mar 2025 14:02:33:336","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":717,"ukuranPaket":157733}
14-02:34:598 -> Terima: {"nomorPaket":13,"timestamp":"24 Mar 2025 14:02:34:348","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":725,"ukuranPaket":157733}
14-02:35:613 -> Terima: {"nomorPaket":14,"timestamp":"24 Mar 2025 14:02:35:363","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":15733}
14-02:36:618 -> Terima: {"nomorPaket":15,"timestamp":"24 Mar 2025 14:02:36:373","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":15733}
14-02:37:613 -> Terima: {"nomorPaket":16,"timestamp":"24 Mar 2025 14:02:37:388","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":157733}
14-02:38:636 -> Terima: {"nomorPaket":17,"timestamp":"24 Mar 2025 14:02:38:399","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":745,"ukuranPaket":157733}
14-02:39:682 -> Terima: {"nomorPaket":18,"timestamp":"24 Mar 2025 14:02:39:414","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":157733}
14-02:40:672 -> Terima: {"nomorPaket":19,"timestamp":"24 Mar 2025 14:02:40:426","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":157733}
14-02:41:691 -> Terima: {"nomorPaket":20,"timestamp":"24 Mar 2025 14:02:41:440","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":157733}
14-02:42:701 -> Terima: {"nomorPaket":21,"timestamp":"24 Mar 2025 14:02:42:451","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":734,"ukuranPaket":157733}
14-02:43:735 -> Terima: {"nomorPaket":22,"timestamp":"24 Mar 2025 14:02:43:465","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":157733}
14-02:44:761 -> Terima: {"nomorPaket":23,"timestamp":"24 Mar 2025 14:02:44:476","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":748,"ukuranPaket":157733}
14-02:45:748 -> Terima: {"nomorPaket":24,"timestamp":"24 Mar 2025 14:02:45:490","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":709,"ukuranPaket":15733}
14-02:46:729 -> Terima: {"nomorPaket":25,"timestamp":"24 Mar 2025 14:02:46:501","temperaturUdara":26.9,"kelompokTanah":0,"nilaiAOC":749,"ukuranPaket":15733}
14-02:47:749 -> Terima: {"nomorPaket":26,"timestamp":"24 Mar 2025 14:02:47:518","temperaturUdara":27,"kelompokTanah":0,"nilaiAOC":712,"ukuranPaket":157733}



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{{"nomorPaket":73,"timestamp":"24 Mar 2025 14:03:34.265","temperaturUdara":26.9,"keLembapanTananah":0,"nilaiAADC":715,"ukuranPaket":157}}
14-03:35.506 -> Terlima: {"nomorPaket":74,"timestamp":"24 Mar 2025 14:03:35.276","temperaturUdara":26.9,"keLembapanTananah":0,"nilaiAADC":749,"ukuranPaket":157}}
14-03:36.529 -> Terlima: {"nomorPaket":75,"timestamp":"24 Mar 2025 14:03:36.291","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":749,"ukuranPaket":157}}
14-03:37.580 -> Terlima: {"nomorPaket":76,"timestamp":"24 Mar 2025 14:03:37.301","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-03:38.565 -> Terlima: {"nomorPaket":77,"timestamp":"24 Mar 2025 14:03:38.316","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-03:39.560 -> Terlima: {"nomorPaket":78,"timestamp":"24 Mar 2025 14:03:39.327","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":749,"ukuranPaket":157}}
14-03:40.604 -> Terlima: {"nomorPaket":79,"timestamp":"24 Mar 2025 14:03:40.341","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-03:41.583 -> Terlima: {"nomorPaket":80,"timestamp":"24 Mar 2025 14:03:41.352","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":750,"ukuranPaket":157}}
14-03:42.605 -> Terlima: {"nomorPaket":81,"timestamp":"24 Mar 2025 14:03:42.366","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-03:43.649 -> Terlima: {"nomorPaket":82,"timestamp":"24 Mar 2025 14:03:43.378","temperaturUdara":27,"keLembapanTananah":0,"nilaiAADC":717,"ukuranPaket":157}}
14-03:44.611 -> Terlima: {"nomorPaket":83,"timestamp":"24 Mar 2025 14:03:44.393","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":747,"ukuranPaket":157}}
14-03:45.646 -> Terlima: {"nomorPaket":84,"timestamp":"24 Mar 2025 14:03:45.403","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":749,"ukuranPaket":157}}
14-03:46.678 -> Terlima: {"nomorPaket":85,"timestamp":"24 Mar 2025 14:03:46.418","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":747,"ukuranPaket":157}}
14-03:47.661 -> Terlima: {"nomorPaket":86,"timestamp":"24 Mar 2025 14:03:47.431","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-03:48.699 -> Terlima: {"nomorPaket":87,"timestamp":"24 Mar 2025 14:03:48.446","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":738,"ukuranPaket":157}}
14-03:49.688 -> Terlima: {"nomorPaket":88,"timestamp":"24 Mar 2025 14:03:49.457","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":738,"ukuranPaket":157}}
14-03:50.696 -> Terlima: {"nomorPaket":89,"timestamp":"24 Mar 2025 14:03:50.471","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":732,"ukuranPaket":157}}
14-03:51.805 -> Terlima: {"nomorPaket":90,"timestamp":"24 Mar 2025 14:03:51.482","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":739,"ukuranPaket":157}}
14-03:52.747 -> Terlima: {"nomorPaket":91,"timestamp":"24 Mar 2025 14:03:52.498","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":673,"ukuranPaket":157}}
14-03:53.745 -> Terlima: {"nomorPaket":92,"timestamp":"24 Mar 2025 14:03:53.512","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":673,"ukuranPaket":157}}
14-03:54.791 -> Terlima: {"nomorPaket":93,"timestamp":"24 Mar 2025 14:03:54.528","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":736,"ukuranPaket":157}}
14-03:55.808 -> Terlima: {"nomorPaket":94,"timestamp":"24 Mar 2025 14:03:55.543","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":701,"ukuranPaket":157}}
14-03:56.807 -> Terlima: {"nomorPaket":95,"timestamp":"24 Mar 2025 14:03:56.558","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":737,"ukuranPaket":157}}
14-03:57.832 -> Terlima: {"nomorPaket":96,"timestamp":"24 Mar 2025 14:03:57.571","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":740,"ukuranPaket":157}}
14-03:58.875 -> Terlima: {"nomorPaket":97,"timestamp":"24 Mar 2025 14:03:58.586","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":738,"ukuranPaket":157}}
14-03:59.839 -> Terlima: {"nomorPaket":98,"timestamp":"24 Mar 2025 14:03:59.596","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":748,"ukuranPaket":157}}
14-04:00.857 -> Terlima: {"nomorPaket":99,"timestamp":"24 Mar 2025 14:04:00.611","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":747,"ukuranPaket":157}}
14-04:01.888 -> Terlima: {"nomorPaket":100,"timestamp":"24 Mar 2025 14:04:01.626","temperaturUdara":27.1,"keLembapanTananah":0,"nilaiAADC":715,"ukuranPaket":158}}
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Data hasil eksperimen kedua jaringan satelit LEO Starlink pada waktu siang hari dengan kondisi cuaca cerah

[Perangkat Sensor]

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14-37:54.931 -> KiriIm: {"nomorPaket":1,"timestamp":"24 Mar 2025 14:37:54.118","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":687,"ukuranPaket":156}
14-37:55.949 -> KiriIm: {"nomorPaket":2,"timestamp":"24 Mar 2025 14:37:55.127","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":712,"ukuranPaket":156}
14-37:56.942 -> KiriIm: {"nomorPaket":3,"timestamp":"24 Mar 2025 14:37:56.143","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":709,"ukuranPaket":156}
14-37:57.940 -> KiriIm: {"nomorPaket":4,"timestamp":"24 Mar 2025 14:37:57.157","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":712,"ukuranPaket":156}
14-37:58.994 -> KiriIm: {"nomorPaket":5,"timestamp":"24 Mar 2025 14:37:58.168","temperaturUdara":24.90,"keLembapanTananah":0,"nilaiAADC":710,"ukuranPaket":156}
14-37:59.976 -> KiriIm: {"nomorPaket":6,"timestamp":"24 Mar 2025 14:37:59.177","temperaturUdara":24.90,"keLembapanTananah":0,"nilaiAADC":711,"ukuranPaket":156}
14-38:01.004 -> KiriIm: {"nomorPaket":7,"timestamp":"24 Mar 2025 14:38:00.192","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":710,"ukuranPaket":156}
14-38:01.999 -> KiriIm: {"nomorPaket":8,"timestamp":"24 Mar 2025 14:38:01.201","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":711,"ukuranPaket":156}
14-38:03.032 -> KiriIm: {"nomorPaket":9,"timestamp":"24 Mar 2025 14:38:02.216","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":744,"ukuranPaket":156}
14-38:04.018 -> KiriIm: {"nomorPaket":10,"timestamp":"24 Mar 2025 14:38:03.228","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":723,"ukuranPaket":157}
14-38:05.032 -> KiriIm: {"nomorPaket":11,"timestamp":"24 Mar 2025 14:38:04.244","temperaturUdara":24.80,"keLembapanTananah":0,"nilaiAADC":745,"ukuranPaket":157}}
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14:38:06:085 -> Kiriim: {"nomorPaket":12,"times tamp":"24 Mar 2025 14:38:05:254","temperaturUdara":24.80,"kelembapanUdara":73.60,"kelembapanTananah":0,"nilaiADC":748,"ukuranPaket":157}
14:38:07:099 -> Kiriim: {"nomorPaket":13,"times tamp":"24 Mar 2025 14:38:06:269","temperaturUdara":24.90,"kelembapanUdara":73.70,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:08:099 -> Kiriim: {"nomorPaket":14,"times tamp":"24 Mar 2025 14:38:07:284","temperaturUdara":24.90,"kelembapanUdara":73.70,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:09:097 -> Kiriim: {"nomorPaket":15,"times tamp":"24 Mar 2025 14:38:08:297","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:10:102 -> Kiriim: {"nomorPaket":16,"times tamp":"24 Mar 2025 14:38:09:312","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":710,"ukuranPaket":157}
14:38:11:126 -> Kiriim: {"nomorPaket":17,"times tamp":"24 Mar 2025 14:38:10:327","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:12:129 -> Kiriim: {"nomorPaket":18,"times tamp":"24 Mar 2025 14:38:11:340","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":747,"ukuranPaket":157}
14:38:13:175 -> Kiriim: {"nomorPaket":19,"times tamp":"24 Mar 2025 14:38:12:355","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":744,"ukuranPaket":157}
14:38:14:199 -> Kiriim: {"nomorPaket":20,"times tamp":"24 Mar 2025 14:38:13:370","temperaturUdara":24.90,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":712,"ukuranPaket":157}
14:38:15:186 -> Kiriim: {"nomorPaket":21,"times tamp":"24 Mar 2025 14:38:14:386","temperaturUdara":25.00,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:16:201 -> Kiriim: {"nomorPaket":22,"times tamp":"24 Mar 2025 14:38:15:399","temperaturUdara":25.00,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":747,"ukuranPaket":157}
14:38:17:217 -> Kiriim: {"nomorPaket":23,"times tamp":"24 Mar 2025 14:38:16:414","temperaturUdara":25.00,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:18:222 -> Kiriim: {"nomorPaket":24,"times tamp":"24 Mar 2025 14:38:17:427","temperaturUdara":25.00,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:19:256 -> Kiriim: {"nomorPaket":25,"times tamp":"24 Mar 2025 14:38:18:442","temperaturUdara":25.00,"kelembapanUdara":73.90,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:20:276 -> Kiriim: {"nomorPaket":26,"times tamp":"24 Mar 2025 14:38:19:455","temperaturUdara":25.00,"kelembapanUdara":73.90,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:21:268 -> Kiriim: {"nomorPaket":27,"times tamp":"24 Mar 2025 14:38:20:470","temperaturUdara":25.00,"kelembapanUdara":74.00,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:22:280 -> Kiriim: {"nomorPaket":28,"times tamp":"24 Mar 2025 14:38:21:486","temperaturUdara":25.00,"kelembapanUdara":74.00,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:23:288 -> Kiriim: {"nomorPaket":29,"times tamp":"24 Mar 2025 14:38:22:495","temperaturUdara":25.00,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":744,"ukuranPaket":157}
14:38:24:297 -> Kiriim: {"nomorPaket":30,"times tamp":"24 Mar 2025 14:38:23:509","temperaturUdara":25.00,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":735,"ukuranPaket":157}
14:38:25:350 -> Kiriim: {"nomorPaket":31,"times tamp":"24 Mar 2025 14:38:24:524","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:26:350 -> Kiriim: {"nomorPaket":32,"times tamp":"24 Mar 2025 14:38:25:537","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":716,"ukuranPaket":157}
14:38:27:381 -> Kiriim: {"nomorPaket":33,"times tamp":"24 Mar 2025 14:38:26:554","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":709,"ukuranPaket":157}
14:38:28:360 -> Kiriim: {"nomorPaket":34,"times tamp":"24 Mar 2025 14:38:27:563","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:29:395 -> Kiriim: {"nomorPaket":35,"times tamp":"24 Mar 2025 14:38:28:578","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:30:405 -> Kiriim: {"nomorPaket":36,"times tamp":"24 Mar 2025 14:38:29:592","temperaturUdara":25.10,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":712,"ukuranPaket":157}
14:38:31:403 -> Kiriim: {"nomorPaket":37,"times tamp":"24 Mar 2025 14:38:30:607","temperaturUdara":25.10,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:32:490 -> Kiriim: {"nomorPaket":38,"times tamp":"24 Mar 2025 14:38:31:620","temperaturUdara":25.10,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:33:428 -> Kiriim: {"nomorPaket":39,"times tamp":"24 Mar 2025 14:38:32:635","temperaturUdara":25.10,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:34:455 -> Kiriim: {"nomorPaket":40,"times tamp":"24 Mar 2025 14:38:33:649","temperaturUdara":25.10,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":738,"ukuranPaket":157}
14:38:35:458 -> Kiriim: {"nomorPaket":41,"times tamp":"24 Mar 2025 14:38:34:659","temperaturUdara":25.20,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":710,"ukuranPaket":157}
14:38:36:476 -> Kiriim: {"nomorPaket":42,"times tamp":"24 Mar 2025 14:38:35:680","temperaturUdara":25.20,"kelembapanUdara":74.30,"kelembapanTananah":0,"nilaiADC":747,"ukuranPaket":157}
14:38:37:525 -> Kiriim: {"nomorPaket":43,"times tamp":"24 Mar 2025 14:38:36:695","temperaturUdara":25.20,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:38:592 -> Kiriim: {"nomorPaket":44,"times tamp":"24 Mar 2025 14:38:37:708","temperaturUdara":25.20,"kelembapanUdara":74.20,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:40:556 -> Kiriim: {"nomorPaket":46,"times tamp":"24 Mar 2025 14:38:39:733","temperaturUdara":25.20,"kelembapanUdara":73.90,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:41:537 -> Kiriim: {"nomorPaket":47,"times tamp":"24 Mar 2025 14:38:40:748","temperaturUdara":25.20,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":744,"ukuranPaket":157}
14:38:42:559 -> Kiriim: {"nomorPaket":48,"times tamp":"24 Mar 2025 14:38:41:759","temperaturUdara":25.20,"kelembapanUdara":73.80,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:43:567 -> Kiriim: {"nomorPaket":49,"times tamp":"24 Mar 2025 14:38:42:775","temperaturUdara":25.20,"kelembapanUdara":73.60,"kelembapanTananah":0,"nilaiADC":708,"ukuranPaket":157}
14:38:44:607 -> Kiriim: {"nomorPaket":50,"times tamp":"24 Mar 2025 14:38:43:785","temperaturUdara":25.20,"kelembapanUdara":73.60,"kelembapanTananah":0,"nilaiADC":705,"ukuranPaket":157}
14:38:45:600 -> Kiriim: {"nomorPaket":51,"times tamp":"24 Mar 2025 14:38:44:806","temperaturUdara":25.30,"kelembapanUdara":73.50,"kelembapanTananah":0,"nilaiADC":712,"ukuranPaket":157}
14:38:46:636 -> Kiriim: {"nomorPaket":52,"times tamp":"24 Mar 2025 14:38:45:817","temperaturUdara":25.30,"kelembapanUdara":73.50,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}
14:38:47:656 -> Kiriim: {"nomorPaket":53,"times tamp":"24 Mar 2025 14:38:46:833","temperaturUdara":25.30,"kelembapanUdara":73.30,"kelembapanTananah":0,"nilaiADC":745,"ukuranPaket":157}
14:38:48:648 -> Kiriim: {"nomorPaket":54,"times tamp":"24 Mar 2025 14:38:47:846","temperaturUdara":25.30,"kelembapanUdara":73.30,"kelembapanTananah":0,"nilaiADC":747,"ukuranPaket":157}
14:38:49:685 -> Kiriim: {"nomorPaket":55,"times tamp":"24 Mar 2025 14:38:48:861","temperaturUdara":25.30,"kelembapanUdara":73.20,"kelembapanTananah":0,"nilaiADC":744,"ukuranPaket":157}
14:38:50:669 -> Kiriim: {"nomorPaket":56,"times tamp":"24 Mar 2025 14:38:49:874","temperaturUdara":25.30,"kelembapanUdara":73.20,"kelembapanTananah":0,"nilaiADC":746,"ukuranPaket":157}



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a. Pengutipan hanya untuk kepentingan pendidikan, penelitian , penulisan karya ilmiah, penulisan laporan, penulisan kritik atau tinjauan suatu masalah.

b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta

2. Dilarang mengemukakan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun

tanpa izin Politeknik Negeri Jakarta

14:38:51.698 -> Kiriim: {"nomorPaket":157,"timesamp":"24 Mar 2025 14:38:50.889","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":745,"ukuranPaket":157}
14:38:52.719 -> Kiriim: {"nomorPaket":158,"timesamp":"24 Mar 2025 14:38:51.904","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":745,"ukuranPaket":157}
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14:38:54.729 -> Kiriim: {"nomorPaket":160,"timesamp":"24 Mar 2025 14:38:53.933","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":746,"ukuranPaket":157}
14:38:55.983 -> Kiriim: {"nomorPaket":161,"timesamp":"24 Mar 2025 14:38:55.169","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":748,"ukuranPaket":157}
14:38:57.012 -> Kiriim: {"nomorPaket":162,"timesamp":"24 Mar 2025 14:38:56.173","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":715,"ukuranPaket":157}
14:38:57.988 -> Kiriim: {"nomorPaket":163,"timesamp":"24 Mar 2025 14:38:57.189","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":744,"ukuranPaket":157}
14:38:59.004 -> Kiriim: {"nomorPaket":164,"timesamp":"24 Mar 2025 14:38:58.203","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":745,"ukuranPaket":157}
14:39:00.040 -> Kiriim: {"nomorPaket":165,"timesamp":"24 Mar 2025 14:38:59.217","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":745,"ukuranPaket":157}
14:39:01.034 -> Kiriim: {"nomorPaket":166,"timesamp":"24 Mar 2025 14:39:00.232","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":710,"ukuranPaket":157}
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14:39:06.111 -> Kiriim: {"nomorPaket":171,"timesamp":"24 Mar 2025 14:39:05.319","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":744,"ukuranPaket":157}
14:39:07.113 -> Kiriim: {"nomorPaket":172,"timesamp":"24 Mar 2025 14:39:06.347","temperatururudara":25.30,"kelompokurudara":73.00,"kelompokurudara":690,"ukuranPaket":157}
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14:39:10.161 -> Kiriim: {"nomorPaket":175,"timesamp":"24 Mar 2025 14:39:09.362","temperatururudara":25.40,"kelompokurudara":73.10,"kelompokurudara":745,"ukuranPaket":157}
14:39:11.195 -> Kiriim: {"nomorPaket":176,"timesamp":"24 Mar 2025 14:39:10.375","temperatururudara":25.40,"kelompokurudara":73.10,"kelompokurudara":746,"ukuranPaket":157}
14:39:12.189 -> Kiriim: {"nomorPaket":177,"timesamp":"24 Mar 2025 14:39:11.391","temperatururudara":25.30,"kelompokurudara":73.20,"kelompokurudara":744,"ukuranPaket":157}
14:39:13.196 -> Kiriim: {"nomorPaket":178,"timesamp":"24 Mar 2025 14:39:12.404","temperatururudara":25.30,"kelompokurudara":73.20,"kelompokurudara":746,"ukuranPaket":157}
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14:39:16.251 -> Kiriim: {"nomorPaket":181,"timesamp":"24 Mar 2025 14:39:15.443","temperatururudara":25.30,"kelompokurudara":73.50,"kelompokurudara":744,"ukuranPaket":157}
14:39:17.285 -> Kiriim: {"nomorPaket":182,"timesamp":"24 Mar 2025 14:39:16.460","temperatururudara":25.40,"kelompokurudara":73.50,"kelompokurudara":745,"ukuranPaket":157}
14:39:18.267 -> Kiriim: {"nomorPaket":183,"timesamp":"24 Mar 2025 14:39:17.477","temperatururudara":25.40,"kelompokurudara":73.60,"kelompokurudara":740,"ukuranPaket":157}
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14:39:21.331 -> Kiriim: {"nomorPaket":185,"timesamp":"24 Mar 2025 14:39:19.508","temperatururudara":25.40,"kelompokurudara":73.70,"kelompokurudara":708,"ukuranPaket":157}
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14:39:23.364 -> Kiriim: {"nomorPaket":187,"timesamp":"24 Mar 2025 14:39:21.532","temperatururudara":25.40,"kelompokurudara":73.70,"kelompokurudara":747,"ukuranPaket":157}
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14:39:25.404 -> Kiriim: {"nomorPaket":189,"timesamp":"24 Mar 2025 14:39:23.561","temperatururudara":25.40,"kelompokurudara":73.70,"kelompokurudara":746,"ukuranPaket":157}
14:39:26.387 -> Kiriim: {"nomorPaket":191,"timesamp":"24 Mar 2025 14:39:25.599","temperatururudara":25.40,"kelompokurudara":73.60,"kelompokurudara":708,"ukuranPaket":157}
14:39:27.392 -> Kiriim: {"nomorPaket":192,"timesamp":"24 Mar 2025 14:39:26.999","temperatururudara":25.40,"kelompokurudara":73.60,"kelompokurudara":747,"ukuranPaket":157}
14:39:28.417 -> Kiriim: {"nomorPaket":193,"timesamp":"24 Mar 2025 14:39:27.613","temperatururudara":25.40,"kelompokurudara":73.60,"kelompokurudara":740,"ukuranPaket":157}
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14:39:32.462 -> Kiriim: {"nomorPaket":197,"timesamp":"24 Mar 2025 14:39:31.671","temperatururudara":25.40,"kelompokurudara":73.10,"kelompokurudara":745,"ukuranPaket":157}
14:39:33.478 -> Kiriim: {"nomorPaket":198,"timesamp":"24 Mar 2025 14:39:32.684","temperatururudara":25.40,"kelompokurudara":73.10,"kelompokurudara":747,"ukuranPaket":157}
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[Perangkat Aktuator]

14:37:54.996 -> Terima: ("nomorPaket":11, "times tamp ":"24 Mar 2025 14:37:54.118", "temperaturUdara":24.8, "kelembapanTanah":73.4, "kelembapanUdara":73.4, "nilaiAOC":687, "ukuranPaket":156)
14:37:56.028 -> Terima: ("nomorPaket":12, "times tamp ":"24 Mar 2025 14:37:55.127", "temperaturUdara":24.8, "kelembapanTanah":73.4, "kelembapanUdara":73.4, "nilaiAOC":712, "ukuranPaket":156)
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14:38:01.153 -> Terima: ("nomorPaket":17, "times tamp ":"24 Mar 2025 14:38:00.192", "temperaturUdara":24.8, "kelembapanTanah":73.5, "kelembapanUdara":73.5, "nilaiAOC":710, "ukuranPaket":156)
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14:38:03.229 -> Terima: ("nomorPaket":19, "times tamp ":"24 Mar 2025 14:38:02.216", "temperaturUdara":24.8, "kelembapanTanah":73.6, "kelembapanUdara":744, "ukuranPaket":156)
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14:38:06.185 -> Terima: ("nomorPaket":12, "times tamp ":"24 Mar 2025 14:38:05.254", "temperaturUdara":24.8, "kelembapanTanah":73.6, "kelembapanUdara":736, "ukuranPaket":157)
14:38:07.167 -> Terima: ("nomorPaket":13, "times tamp ":"24 Mar 2025 14:38:06.269", "temperaturUdara":24.9, "kelembapanTanah":73.7, "kelembapanUdara":745, "ukuranPaket":157)
14:38:08.166 -> Terima: ("nomorPaket":14, "times tamp ":"24 Mar 2025 14:38:07.282", "temperaturUdara":24.9, "kelembapanTanah":73.8, "kelembapanUdara":746, "ukuranPaket":157)
14:38:09.181 -> Terima: ("nomorPaket":15, "times tamp ":"24 Mar 2025 14:38:08.297", "temperaturUdara":24.9, "kelembapanTanah":73.8, "kelembapanUdara":745, "ukuranPaket":157)
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14:38:14.292 -> Terima: ("nomorPaket":20, "times tamp ":"24 Mar 2025 14:38:13.370", "temperaturUdara":24.9, "kelembapanTanah":73.8, "kelembapanUdara":712, "ukuranPaket":157)
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14:38:16.323 -> Terima: ("nomorPaket":22, "times tamp ":"24 Mar 2025 14:38:15.399", "temperaturUdara":25, "kelembapanTanah":73.8, "kelembapanUdara":747, "ukuranPaket":157)
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14:38:18.339 -> Terima: ("nomorPaket":24, "times tamp ":"24 Mar 2025 14:38:17.437", "temperaturUdara":25, "kelembapanTanah":73.8, "kelembapanUdara":746, "ukuranPaket":157)
14:38:19.374 -> Terima: ("nomorPaket":25, "times tamp ":"24 Mar 2025 14:38:18.442", "temperaturUdara":25, "kelembapanTanah":73.9, "kelembapanUdara":746, "ukuranPaket":157)
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14:38:24.437 -> Terima: ("nomorPaket":30, "times tamp ":"24 Mar 2025 14:38:23.509", "temperaturUdara":25, "kelembapanTanah":74.2, "kelembapanUdara":735, "ukuranPaket":157)
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14:38:28.470 -> Terima: ("nomorPaket":34, "times tamp ":"24 Mar 2025 14:38:27.563", "temperaturUdara":25.1, "kelembapanTanah":74.2, "kelembapanUdara":746, "ukuranPaket":157)
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Data hasil eksperimen pertama jaringan seluler by.U pada waktu siang hari dengan kondisi cuaca cerah

[Perangkat Sensor]

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14:57:01.634 -> KiriIm: {"nomorPaket":59,"times tamp":"24 Mar 2025 14:57:00.818","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":705,"ukuranPaket":157}
14:57:02.660 -> KiriIm: {"nomorPaket":60,"times tamp":"24 Mar 2025 14:57:01.828","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":709,"ukuranPaket":157}
14:57:03.864 -> KiriIm: {"nomorPaket":61,"times tamp":"24 Mar 2025 14:57:03.056","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":705,"ukuranPaket":157}
14:57:05.871 -> KiriIm: {"nomorPaket":63,"times tamp":"24 Mar 2025 14:57:05.085","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":705,"ukuranPaket":157}
14:57:06.889 -> KiriIm: {"nomorPaket":64,"times tamp":"24 Mar 2025 14:57:06.090","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":710,"ukuranPaket":157}
14:57:07.920 -> KiriIm: {"nomorPaket":65,"times tamp":"24 Mar 2025 14:57:07.105","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":708,"ukuranPaket":157}
14:57:08.925 -> KiriIm: {"nomorPaket":66,"times tamp":"24 Mar 2025 14:57:08.115","temperaturUdara":23.50,"kelembapanTengah":0,"nilaiADC":708,"ukuranPaket":157}
14:57:09.940 -> KiriIm: {"nomorPaket":67,"times tamp":"24 Mar 2025 14:57:09.138","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":707,"ukuranPaket":157}
14:57:10.956 -> KiriIm: {"nomorPaket":68,"times tamp":"24 Mar 2025 14:57:10.141","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":708,"ukuranPaket":157}
14:57:11.975 -> KiriIm: {"nomorPaket":69,"times tamp":"24 Mar 2025 14:57:11.156","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":705,"ukuranPaket":157}
14:57:12.975 -> KiriIm: {"nomorPaket":70,"times tamp":"24 Mar 2025 14:57:12.166","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":710,"ukuranPaket":157}
14:57:13.995 -> KiriIm: {"nomorPaket":71,"times tamp":"24 Mar 2025 14:57:13.181","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":706,"ukuranPaket":157}
14:57:14.977 -> KiriIm: {"nomorPaket":72,"times tamp":"24 Mar 2025 14:57:14.191","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":708,"ukuranPaket":157}
14:57:15.998 -> KiriIm: {"nomorPaket":73,"times tamp":"24 Mar 2025 14:57:15.206","temperaturUdara":23.40,"kelembapanTengah":0,"nilaiADC":708,"ukuranPaket":157}



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14:57:17.025 -> Kirim: {"nomorPaket":74, "timesamp": "24 Mar 2025 14:57:16.216", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:18.041 -> Kirim: {"nomorPaket":75, "timesamp": "24 Mar 2025 14:57:17.231", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:19.066 -> Kirim: {"nomorPaket":76, "timesamp": "24 Mar 2025 14:57:18.241", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":710, "ukuranPaket":157}	14:57:20.052 -> Kirim: {"nomorPaket":77, "timesamp": "24 Mar 2025 14:57:19.251", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}
14:57:21.075 -> Kirim: {"nomorPaket":78, "timesamp": "24 Mar 2025 14:57:20.266", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":707, "ukuranPaket":157}	14:57:22.095 -> Kirim: {"nomorPaket":79, "timesamp": "24 Mar 2025 14:57:21.283", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}
14:57:23.116 -> Kirim: {"nomorPaket":80, "timesamp": "24 Mar 2025 14:57:22.291", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:24.138 -> Kirim: {"nomorPaket":81, "timesamp": "24 Mar 2025 14:57:23.307", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}
14:57:25.126 -> Kirim: {"nomorPaket":82, "timesamp": "24 Mar 2025 14:57:24.317", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":157}	14:57:26.123 -> Kirim: {"nomorPaket":83, "timesamp": "24 Mar 2025 14:57:25.332", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:27.154 -> Kirim: {"nomorPaket":84, "timesamp": "24 Mar 2025 14:57:26.342", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}	14:57:28.167 -> Kirim: {"nomorPaket":85, "timesamp": "24 Mar 2025 14:57:27.357", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":707, "ukuranPaket":157}
14:57:29.163 -> Kirim: {"nomorPaket":86, "timesamp": "24 Mar 2025 14:57:28.368", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:30.180 -> Kirim: {"nomorPaket":87, "timesamp": "24 Mar 2025 14:57:29.383", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}
14:57:31.206 -> Kirim: {"nomorPaket":88, "timesamp": "24 Mar 2025 14:57:30.392", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:32.201 -> Kirim: {"nomorPaket":89, "timesamp": "24 Mar 2025 14:57:31.403", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:33.239 -> Kirim: {"nomorPaket":90, "timesamp": "24 Mar 2025 14:57:32.417", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":710, "ukuranPaket":157}	14:57:34.241 -> Kirim: {"nomorPaket":91, "timesamp": "24 Mar 2025 14:57:33.432", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:35.229 -> Kirim: {"nomorPaket":92, "timesamp": "24 Mar 2025 14:57:34.442", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:36.248 -> Kirim: {"nomorPaket":93, "timesamp": "24 Mar 2025 14:57:35.456", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}
14:57:37.253 -> Kirim: {"nomorPaket":94, "timesamp": "24 Mar 2025 14:57:36.466", "temperaturudara":23.40, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":157}	14:57:38.290 -> Kirim: {"nomorPaket":95, "timesamp": "24 Mar 2025 14:57:37.491", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:39.318 -> Kirim: {"nomorPaket":96, "timesamp": "24 Mar 2025 14:57:38.491", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":157}	14:57:40.300 -> Kirim: {"nomorPaket":97, "timesamp": "24 Mar 2025 14:57:39.506", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":157}
14:57:41.327 -> Kirim: {"nomorPaket":98, "timesamp": "24 Mar 2025 14:57:40.516", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":157}	14:57:42.329 -> Kirim: {"nomorPaket":99, "timesamp": "24 Mar 2025 14:57:41.531", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}
14:57:43.355 -> Kirim: {"nomorPaket":100, "timesamp": "24 Mar 2025 14:57:42.541", "temperaturudara":23.30, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":158}	
[Perangkat Aktuator]	
14:56:02.991 -> Terima: {"nomorPaket":1, "timesamp": "24 Mar 2025 14:56:02.095", "temperaturudara":23.5, "kelompokanpaket":0, "nilaiAOC":688, "ukuranPaket":156}	14:56:04.088 -> Terima: {"nomorPaket":2, "timesamp": "24 Mar 2025 14:56:03.108", "temperaturudara":23.5, "kelompokanpaket":0, "nilaiAOC":688, "ukuranPaket":156}
14:56:05.041 -> Terima: {"nomorPaket":3, "timesamp": "24 Mar 2025 14:56:04.120", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":156}	14:56:06.069 -> Terima: {"nomorPaket":4, "timesamp": "24 Mar 2025 14:56:05.123", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":156}
14:56:07.118 -> Terima: {"nomorPaket":5, "timesamp": "24 Mar 2025 14:56:06.144", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":156}	14:56:08.139 -> Terima: {"nomorPaket":6, "timesamp": "24 Mar 2025 14:56:07.154", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":156}
14:56:09.213 -> Terima: {"nomorPaket":7, "timesamp": "24 Mar 2025 14:56:08.169", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":156}	14:56:10.223 -> Terima: {"nomorPaket":8, "timesamp": "24 Mar 2025 14:56:09.178", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":708, "ukuranPaket":156}
14:56:11.281 -> Terima: {"nomorPaket":9, "timesamp": "24 Mar 2025 14:56:10.193", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":705, "ukuranPaket":156}	14:56:12.263 -> Terima: {"nomorPaket":10, "timesamp": "24 Mar 2025 14:56:11.202", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":710, "ukuranPaket":157}
14:56:13.301 -> Terima: {"nomorPaket":11, "timesamp": "24 Mar 2025 14:56:12.217", "temperaturudara":23.5, "kelompokanpaket":0, "nilaiAOC":740, "ukuranPaket":157}	14:56:14.180 -> Terima: {"nomorPaket":12, "timesamp": "24 Mar 2025 14:56:13.230", "temperaturudara":23.5, "kelompokanpaket":0, "nilaiAOC":743, "ukuranPaket":157}
14:56:15.170 -> Terima: {"nomorPaket":13, "timesamp": "24 Mar 2025 14:56:14.246", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}	14:56:16.168 -> Terima: {"nomorPaket":14, "timesamp": "24 Mar 2025 14:56:15.257", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":157}
14:56:17.238 -> Terima: {"nomorPaket":15, "timesamp": "24 Mar 2025 14:56:16.272", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":706, "ukuranPaket":157}	14:56:18.329 -> Terima: {"nomorPaket":16, "timesamp": "24 Mar 2025 14:56:17.282", "temperaturudara":23.4, "kelompokanpaket":0, "nilaiAOC":709, "ukuranPaket":157}



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14:57:05.041 -> Terlima : {"nomorPaket":62,"timeStamp":"24 Mar 2025 14:57:04.065","temperaturUdara":23.5,"keLembapanUdara":81.6,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:06.136 -> Terlima : {"nomorPaket":63,"timeStamp":"24 Mar 2025 14:57:05.080","temperaturUdara":23.5,"keLembapanUdara":81.6,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:07.002 -> Terlima : {"nomorPaket":64,"timeStamp":"24 Mar 2025 14:57:06.090","temperaturUdara":23.5,"keLembapanUdara":81.6,"keLembapanTanah":0,"nilaiAADC":710,"ukuranPaket":157}
14:57:08.038 -> Terlima : {"nomorPaket":65,"timeStamp":"24 Mar 2025 14:57:07.105","temperaturUdara":23.5,"keLembapanUdara":81.7,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:09.071 -> Terlima : {"nomorPaket":66,"timeStamp":"24 Mar 2025 14:57:08.115","temperaturUdara":23.5,"keLembapanUdara":81.7,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:10.082 -> Terlima : {"nomorPaket":67,"timeStamp":"24 Mar 2025 14:57:09.130","temperaturUdara":23.4,"keLembapanUdara":81.8,"keLembapanTanah":0,"nilaiAADC":787,"ukuranPaket":157}
14:57:11.036 -> Terlima : {"nomorPaket":68,"timeStamp":"24 Mar 2025 14:57:10.141","temperaturUdara":23.4,"keLembapanUdara":81.8,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:12.059 -> Terlima : {"nomorPaket":69,"timeStamp":"24 Mar 2025 14:57:11.166","temperaturUdara":23.4,"keLembapanUdara":81.9,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:13.089 -> Terlima : {"nomorPaket":70,"timeStamp":"24 Mar 2025 14:57:12.155","temperaturUdara":23.4,"keLembapanUdara":81.9,"keLembapanTanah":0,"nilaiAADC":710,"ukuranPaket":157}
14:57:14.169 -> Terlima : {"nomorPaket":71,"timeStamp":"24 Mar 2025 14:57:13.181","temperaturUdara":23.4,"keLembapanUdara":82,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:15.084 -> Terlima : {"nomorPaket":72,"timeStamp":"24 Mar 2025 14:57:14.191","temperaturUdara":23.4,"keLembapanUdara":82,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:16.109 -> Terlima : {"nomorPaket":73,"timeStamp":"24 Mar 2025 14:57:15.206","temperaturUdara":23.4,"keLembapanUdara":82.1,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:17.102 -> Terlima : {"nomorPaket":74,"timeStamp":"24 Mar 2025 14:57:16.216","temperaturUdara":23.4,"keLembapanUdara":82.1,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:18.261 -> Terlima : {"nomorPaket":75,"timeStamp":"24 Mar 2025 14:57:17.231","temperaturUdara":23.4,"keLembapanUdara":82.2,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:19.277 -> Terlima : {"nomorPaket":76,"timeStamp":"24 Mar 2025 14:57:18.241","temperaturUdara":23.4,"keLembapanUdara":82.2,"keLembapanTanah":0,"nilaiAADC":710,"ukuranPaket":157}
14:57:20.340 -> Terlima : {"nomorPaket":77,"timeStamp":"24 Mar 2025 14:57:19.257","temperaturUdara":23.4,"keLembapanUdara":82.3,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:21.400 -> Terlima : {"nomorPaket":78,"timeStamp":"24 Mar 2025 14:57:20.265","temperaturUdara":23.4,"keLembapanUdara":82.3,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:22.172 -> Terlima : {"nomorPaket":79,"timeStamp":"24 Mar 2025 14:57:21.282","temperaturUdara":23.4,"keLembapanUdara":82.5,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:23.277 -> Terlima : {"nomorPaket":80,"timeStamp":"24 Mar 2025 14:57:22.291","temperaturUdara":23.4,"keLembapanUdara":82.5,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:24.351 -> Terlima : {"nomorPaket":81,"timeStamp":"24 Mar 2025 14:57:23.307","temperaturUdara":23.4,"keLembapanUdara":82.7,"keLembapanTanah":0,"nilaiAADC":787,"ukuranPaket":157}
14:57:25.356 -> Terlima : {"nomorPaket":82,"timeStamp":"24 Mar 2025 14:57:24.317","temperaturUdara":23.4,"keLembapanUdara":82.7,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:26.369 -> Terlima : {"nomorPaket":83,"timeStamp":"24 Mar 2025 14:57:25.332","temperaturUdara":23.4,"keLembapanUdara":82.8,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:27.580 -> Terlima : {"nomorPaket":84,"timeStamp":"24 Mar 2025 14:57:26.342","temperaturUdara":23.4,"keLembapanUdara":82.8,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:28.290 -> Terlima : {"nomorPaket":85,"timeStamp":"24 Mar 2025 14:57:27.357","temperaturUdara":23.4,"keLembapanUdara":83,"keLembapanTanah":0,"nilaiAADC":787,"ukuranPaket":157}
14:57:29.347 -> Terlima : {"nomorPaket":86,"timeStamp":"24 Mar 2025 14:57:28.368","temperaturUdara":23.4,"keLembapanUdara":83,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:30.336 -> Terlima : {"nomorPaket":87,"timeStamp":"24 Mar 2025 14:57:29.383","temperaturUdara":23.4,"keLembapanUdara":83.7,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:31.355 -> Terlima : {"nomorPaket":88,"timeStamp":"24 Mar 2025 14:57:30.392","temperaturUdara":23.4,"keLembapanUdara":83.7,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:32.326 -> Terlima : {"nomorPaket":89,"timeStamp":"24 Mar 2025 14:57:31.408","temperaturUdara":23.3,"keLembapanUdara":83.5,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:33.351 -> Terlima : {"nomorPaket":90,"timeStamp":"24 Mar 2025 14:57:32.417","temperaturUdara":23.3,"keLembapanUdara":83.5,"keLembapanTanah":0,"nilaiAADC":710,"ukuranPaket":157}
14:57:34.362 -> Terlima : {"nomorPaket":91,"timeStamp":"24 Mar 2025 14:57:33.432","temperaturUdara":23.4,"keLembapanUdara":83.2,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:35.491 -> Terlima : {"nomorPaket":92,"timeStamp":"24 Mar 2025 14:57:34.442","temperaturUdara":23.4,"keLembapanUdara":83.2,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:36.522 -> Terlima : {"nomorPaket":93,"timeStamp":"24 Mar 2025 14:57:35.456","temperaturUdara":23.4,"keLembapanUdara":82.9,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:37.593 -> Terlima : {"nomorPaket":94,"timeStamp":"24 Mar 2025 14:57:36.466","temperaturUdara":23.4,"keLembapanUdara":82.9,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":157}
14:57:38.534 -> Terlima : {"nomorPaket":95,"timeStamp":"24 Mar 2025 14:57:37.481","temperaturUdara":23.3,"keLembapanUdara":82.7,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:39.647 -> Terlima : {"nomorPaket":96,"timeStamp":"24 Mar 2025 14:57:38.491","temperaturUdara":23.3,"keLembapanUdara":82.7,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:40.416 -> Terlima : {"nomorPaket":97,"timeStamp":"24 Mar 2025 14:57:39.506","temperaturUdara":23.3,"keLembapanUdara":82.6,"keLembapanTanah":0,"nilaiAADC":785,"ukuranPaket":157}
14:57:41.461 -> Terlima : {"nomorPaket":98,"timeStamp":"24 Mar 2025 14:57:40.516","temperaturUdara":23.3,"keLembapanUdara":82.6,"keLembapanTanah":0,"nilaiAADC":789,"ukuranPaket":157}
14:57:42.557 -> Terlima : {"nomorPaket":99,"timeStamp":"24 Mar 2025 14:57:41.531","temperaturUdara":23.3,"keLembapanUdara":82.5,"keLembapanTanah":0,"nilaiAADC":786,"ukuranPaket":157}
14:57:43.606 -> Terlima : {"nomorPaket":100,"timeStamp":"24 Mar 2025 14:57:42.541","temperaturUdara":23.3,"keLembapanUdara":82.5,"keLembapanTanah":0,"nilaiAADC":788,"ukuranPaket":158}

Data hasil eksperimen kedua jaringan seluler by.U pada waktu siang hari dengan kondisi cuaca cerah

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b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta

2. Dilarang mengumunkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun

tanpa izin Politeknik Negeri Jakarta

15:03:32.272 -> KiriIm: {"nomorPaket":1,"timeStamp":"24 Mar 2025 15:03:32.076","temperaturUdara":23.00,"kelembapanUdara":86.80,"kelembapanTanan":0,"nilaiADC":702,"ukuranPaket":156}	15:03:33.245 -> KiriIm: {"nomorPaket":2,"timeStamp":"24 Mar 2025 15:03:33.085","temperaturUdara":23.00,"kelembapanUdara":86.80,"kelembapanTanan":0,"nilaiADC":709,"ukuranPaket":156}	15:03:34.269 -> KiriIm: {"nomorPaket":3,"timeStamp":"24 Mar 2025 15:03:34.100","kelembapanUdara":23.00,"kelembapanUdara":87.30,"kelembapanTanan":0,"nilaiADC":705,"ukuranPaket":156}	15:03:35.293 -> KiriIm: {"nomorPaket":4,"timeStamp":"24 Mar 2025 15:03:35.109","temperaturUdara":23.00,"kelembapanUdara":87.30,"kelembapanTanan":0,"nilaiADC":709,"ukuranPaket":156}	15:03:36.292 -> KiriIm: {"nomorPaket":5,"timeStamp":"24 Mar 2025 15:03:36.124","kelembapanUdara":23.00,"kelembapanUdara":87.10,"kelembapanTanan":0,"nilaiADC":706,"ukuranPaket":156}	15:03:37.293 -> KiriIm: {"nomorPaket":6,"timeStamp":"24 Mar 2025 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15:03:42.195","temperaturUdara":23.00,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":739,"ukuranPaket":157}	15:03:43.382 -> KiriIm: {"nomorPaket":12,"timeStamp":"24 Mar 2025 15:03:43.205","temperaturUdara":23.00,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":744,"ukuranPaket":157}	15:03:44.392 -> KiriIm: {"nomorPaket":13,"timeStamp":"24 Mar 2025 15:03:44.220","temperaturUdara":22.90,"kelembapanUdara":86.50,"kelembapanTanan":0,"nilaiADC":739,"ukuranPaket":157}	15:03:45.402 -> KiriIm: {"nomorPaket":14,"timeStamp":"24 Mar 2025 15:03:45.238","temperaturUdara":22.90,"kelembapanUdara":86.50,"kelembapanTanan":0,"nilaiADC":740,"ukuranPaket":157}	15:03:46.440 -> KiriIm: {"nomorPaket":15,"timeStamp":"24 Mar 2025 15:03:46.245","temperaturUdara":23.00,"kelembapanUdara":86.40,"kelembapanTanan":0,"nilaiADC":740,"ukuranPaket":157}	15:03:47.415 -> KiriIm: {"nomorPaket":16,"timeStamp":"24 Mar 2025 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15:03:52.322","temperaturUdara":23.00,"kelembapanUdara":86.50,"kelembapanTanan":0,"nilaiADC":705,"ukuranPaket":157}	15:03:53.490 -> KiriIm: {"nomorPaket":22,"timeStamp":"24 Mar 2025 15:03:53.333","temperaturUdara":23.00,"kelembapanUdara":86.50,"kelembapanTanan":0,"nilaiADC":707,"ukuranPaket":157}	15:03:54.504 -> KiriIm: {"nomorPaket":23,"timeStamp":"24 Mar 2025 15:03:54.347","temperaturUdara":22.90,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":706,"ukuranPaket":157}	15:03:55.539 -> KiriIm: {"nomorPaket":24,"timeStamp":"24 Mar 2025 15:03:55.358","temperaturUdara":22.90,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":707,"ukuranPaket":157}	15:03:56.553 -> KiriIm: {"nomorPaket":25,"timeStamp":"24 Mar 2025 15:03:56.375","temperaturUdara":22.90,"kelembapanUdara":86.70,"kelembapanTanan":0,"nilaiADC":704,"ukuranPaket":157}	15:03:57.568 -> KiriIm: {"nomorPaket":26,"timeStamp":"24 Mar 2025 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15:04:03.457","temperaturUdara":23.00,"kelembapanUdara":87.00,"kelembapanTanan":0,"nilaiADC":708,"ukuranPaket":157}	15:04:05.652 -> KiriIm: {"nomorPaket":32,"timeStamp":"24 Mar 2025 15:04:05.481","temperaturUdara":22.90,"kelembapanUdara":87.00,"kelembapanTanan":0,"nilaiADC":694,"ukuranPaket":157}	15:04:06.631 -> KiriIm: {"nomorPaket":33,"timeStamp":"24 Mar 2025 15:04:06.477","temperaturUdara":22.90,"kelembapanUdara":87.00,"kelembapanTanan":0,"nilaiADC":708,"ukuranPaket":157}	15:04:07.655 -> KiriIm: {"nomorPaket":34,"timeStamp":"24 Mar 2025 15:04:07.497","temperaturUdara":22.90,"kelembapanUdara":86.90,"kelembapanTanan":0,"nilaiADC":705,"ukuranPaket":157}	15:04:08.693 -> KiriIm: {"nomorPaket":35,"timeStamp":"24 Mar 2025 15:04:08.521","temperaturUdara":22.90,"kelembapanUdara":86.90,"kelembapanTanan":0,"nilaiADC":705,"ukuranPaket":157}	15:04:09.730 -> KiriIm: {"nomorPaket":36,"timeStamp":"24 Mar 2025 15:04:09.531","temperaturUdara":22.90,"kelembapanUdara":86.70,"kelembapanTanan":0,"nilaiADC":709,"ukuranPaket":157}	15:04:10.708 -> KiriIm: {"nomorPaket":37,"timeStamp":"24 Mar 2025 15:04:10.546","temperaturUdara":22.90,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":705,"ukuranPaket":157}	15:04:11.714 -> KiriIm: {"nomorPaket":38,"timeStamp":"24 Mar 2025 15:04:11.555","temperaturUdara":22.90,"kelembapanUdara":86.60,"kelembapanTanan":0,"nilaiADC":708,"ukuranPaket":157}	15:04:12.752 -> KiriIm: {"nomorPaket":39,"timeStamp":"24 Mar 2025 15:04:12.571","temperaturUdara":22.90,"kelembapanUdara":86.90,"kelembapanTanan":0,"nilaiADC":707,"ukuranPaket":157}	15:04:13.765 -> KiriIm: {"nomorPaket":40,"timeStamp":"24 Mar 2025 15:04:13.580","temperaturUdara":22.90,"kelembapanUdara":86.90,"kelembapanTanan":0,"nilaiADC":708,"ukuranPaket":157}	15:04:14.791 -> KiriIm: {"nomorPaket":41,"timeStamp":"24 Mar 2025 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{15:04:17.820 -> KiriIm: {"nomorPaket":46, "timesamp":24 Mar 2025 15:04:17.629, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
15:04:18.803 -> KiriIm: {"nomorPaket":47, "timesamp":24 Mar 2025 15:04:18.645, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
15:04:19.850 -> KiriIm: {"nomorPaket":48, "timesamp":24 Mar 2025 15:04:19.654, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":709, "ukuranPaket":157}
15:04:20.850 -> KiriIm: {"nomorPaket":49, "timesamp":24 Mar 2025 15:04:20.669, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
15:04:21.840 -> KiriIm: {"nomorPaket":50, "timesamp":24 Mar 2025 15:04:21.679, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":674, "ukuranPaket":157}
15:04:22.867 -> KiriIm: {"nomorPaket":51, "timesamp":24 Mar 2025 15:04:22.694, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
15:04:23.901 -> KiriIm: {"nomorPaket":52, "timesamp":24 Mar 2025 15:04:23.703, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":709, "ukuranPaket":157}
15:04:24.905 -> KiriIm: {"nomorPaket":53, "timesamp":24 Mar 2025 15:04:24.719, "temperaturudara":22.90, "kelembapanTengah":0, "nilaiADC":706, "ukuranPaket":157}
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15:04:29.943 -> KiriIm: {"nomorPaket":58, "timesamp":24 Mar 2025 15:04:29.777, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
15:04:30.957 -> KiriIm: {"nomorPaket":59, "timesamp":24 Mar 2025 15:04:30.793, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
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15:04:34.120 -> KiriIm: {"nomorPaket":63, "timesamp":24 Mar 2025 15:04:34.947, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":706, "ukuranPaket":157}
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15:04:37.134 -> KiriIm: {"nomorPaket":66, "timesamp":24 Mar 2025 15:04:37.981, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
15:04:38.166 -> KiriIm: {"nomorPaket":67, "timesamp":24 Mar 2025 15:04:38.997, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
15:04:39.180 -> KiriIm: {"nomorPaket":68, "timesamp":24 Mar 2025 15:04:39.007, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
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15:04:42.205 -> KiriIm: {"nomorPaket":71, "timesamp":24 Mar 2025 15:04:42.047, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
15:04:43.205 -> KiriIm: {"nomorPaket":72, "timesamp":24 Mar 2025 15:04:43.056, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
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15:04:45.235 -> KiriIm: {"nomorPaket":74, "timesamp":24 Mar 2025 15:04:45.081, "temperaturudara":22.80, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
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15:04:50.321 -> KiriIm: {"nomorPaket":79, "timesamp":24 Mar 2025 15:04:50.144, "temperaturudara":22.70, "kelembapanTengah":0, "nilaiADC":704, "ukuranPaket":157}
15:04:51.341 -> KiriIm: {"nomorPaket":80, "timesamp":24 Mar 2025 15:04:51.153, "temperaturudara":22.70, "kelembapanTengah":0, "nilaiADC":708, "ukuranPaket":157}
15:04:52.312 -> KiriIm: {"nomorPaket":81, "timesamp":24 Mar 2025 15:04:52.169, "temperaturudara":22.70, "kelembapanTengah":0, "nilaiADC":703, "ukuranPaket":157}
15:04:53.361 -> KiriIm: {"nomorPaket":82, "timesamp":24 Mar 2025 15:04:53.178, "temperaturudara":22.70, "kelembapanTengah":0, "nilaiADC":709, "ukuranPaket":157}
15:04:54.337 -> KiriIm: {"nomorPaket":83, "timesamp":24 Mar 2025 15:04:54.193, "temperaturudara":22.70, "kelembapanTengah":0, "nilaiADC":705, "ukuranPaket":157}
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15:05:03:452 -> KiriIm: { "nomorPaket":91, "timestamp": "24 Mar 2025 15:05:02:292", "temperaturUdara":22.60, "kelembapanUdara":85.90, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":157}	15:05:04:464 -> KiriIm: { "nomorPaket":92, "timestamp": "24 Mar 2025 15:05:03:301", "temperaturUdara":22.60, "kelembapanUdara":85.90, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":157}	15:05:05:496 -> KiriIm: { "nomorPaket":93, "timestamp": "24 Mar 2025 15:05:04:316", "temperaturUdara":22.70, "kelembapanUdara":86.00, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":157}	15:05:06:518 -> KiriIm: { "nomorPaket":94, "timestamp": "24 Mar 2025 15:05:05:326", "temperaturUdara":22.70, "kelembapanUdara":86.00, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":157}	15:05:07:532 -> KiriIm: { "nomorPaket":95, "timestamp": "24 Mar 2025 15:05:06:341", "temperaturUdara":22.60, "kelembapanUdara":86.10, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":157}	15:05:08:526 -> KiriIm: { "nomorPaket":96, "timestamp": "24 Mar 2025 15:05:07:350", "temperaturUdara":22.60, "kelembapanUdara":86.10, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":157}	15:05:09:540 -> KiriIm: { "nomorPaket":97, "timestamp": "24 Mar 2025 15:05:08:365", "temperaturUdara":22.60, "kelembapanUdara":86.30, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":157}	15:05:10:548 -> KiriIm: { "nomorPaket":98, "timestamp": "24 Mar 2025 15:05:09:375", "temperaturUdara":22.60, "kelembapanUdara":86.30, "kelembapanTanah":0, "nilaiAOC":703, "ukuranPaket":157}	15:05:11:582 -> KiriIm: { "nomorPaket":99, "timestamp": "24 Mar 2025 15:05:10:390", "temperaturUdara":22.60, "kelembapanUdara":86.40, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":157}	15:05:12:564 -> KiriIm: { "nomorPaket":100, "timestamp": "24 Mar 2025 15:05:11:399", "temperaturUdara":22.60, "kelembapanUdara":86.40, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":158}																							
[Perangkat Aktuator]																																
15:03:32:512 -> TerIma: { "nomorPaket":1, "timestamp": "24 Mar 2025 15:03:32:076", "temperaturUdara":23, "kelembapanUdara":86.8, "kelembapanTanah":0, "nilaiAOC":702, "ukuranPaket":156}	15:03:33:544 -> TerIma: { "nomorPaket":2, "timestamp": "24 Mar 2025 15:03:33:085", "temperaturUdara":23, "kelembapanUdara":86.8, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":156}	15:03:34:534 -> TerIma: { "nomorPaket":3, "timestamp": "24 Mar 2025 15:03:34:109", "temperaturUdara":23, "kelembapanUdara":87.3, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":156}	15:03:35:570 -> TerIma: { "nomorPaket":4, "timestamp": "24 Mar 2025 15:03:35:109", "temperaturUdara":23, "kelembapanUdara":87.3, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":156}	15:03:36:478 -> TerIma: { "nomorPaket":5, "timestamp": "24 Mar 2025 15:03:36:124", "temperaturUdara":23, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":156}	15:03:37:474 -> TerIma: { "nomorPaket":6, "timestamp": "24 Mar 2025 15:03:37:134", "temperaturUdara":23, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":156}	15:03:38:424 -> TerIma: { "nomorPaket":7, "timestamp": "24 Mar 2025 15:03:38:149", "temperaturUdara":23, "kelembapanUdara":86.8, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":156}	15:03:39:470 -> TerIma: { "nomorPaket":8, "timestamp": "24 Mar 2025 15:03:39:158", "temperaturUdara":23, "kelembapanUdara":86.8, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":156}	15:03:40:469 -> TerIma: { "nomorPaket":9, "timestamp": "24 Mar 2025 15:03:40:173", "temperaturUdara":23, "kelembapanUdara":86.7, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":156}	15:03:41:537 -> TerIma: { "nomorPaket":10, "timestamp": "24 Mar 2025 15:03:41:181", "temperaturUdara":23, "kelembapanUdara":86.7, "kelembapanTanah":0, "nilaiAOC":739, "ukuranPaket":157}	15:03:42:576 -> TerIma: { "nomorPaket":11, "timestamp": "24 Mar 2025 15:03:42:195", "temperaturUdara":23, "kelembapanUdara":86.6, "kelembapanTanah":0, "nilaiAOC":739, "ukuranPaket":157}	15:03:43:488 -> TerIma: { "nomorPaket":12, "timestamp": "24 Mar 2025 15:03:43:205", "temperaturUdara":23, "kelembapanUdara":86.6, "kelembapanTanah":0, "nilaiAOC":744, "ukuranPaket":157}	15:03:44:470 -> TerIma: { "nomorPaket":13, "timestamp": "24 Mar 2025 15:03:44:220", "temperaturUdara":22.9, "kelembapanUdara":86.5, "kelembapanTanah":0, "nilaiAOC":739, "ukuranPaket":157}	15:03:45:483 -> TerIma: { "nomorPaket":14, "timestamp": "24 Mar 2025 15:03:45:230", "temperaturUdara":22.9, "kelembapanUdara":86.5, "kelembapanTanah":0, "nilaiAOC":740, "ukuranPaket":157}	15:03:46:547 -> TerIma: { "nomorPaket":15, "timestamp": "24 Mar 2025 15:03:46:245", "temperaturUdara":23, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":740, "ukuranPaket":157}	15:03:47:629 -> TerIma: { "nomorPaket":16, "timestamp": "24 Mar 2025 15:03:47:255", "temperaturUdara":23, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":741, "ukuranPaket":157}	15:03:48:646 -> TerIma: { "nomorPaket":17, "timestamp": "24 Mar 2025 15:03:48:270", "temperaturUdara":22.9, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":715, "ukuranPaket":157}	15:03:49:661 -> TerIma: { "nomorPaket":18, "timestamp": "24 Mar 2025 15:03:49:280", "temperaturUdara":22.9, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":740, "ukuranPaket":157}	15:03:50:670 -> TerIma: { "nomorPaket":19, "timestamp": "24 Mar 2025 15:03:50:295", "temperaturUdara":22.9, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":739, "ukuranPaket":157}	15:03:51:662 -> TerIma: { "nomorPaket":20, "timestamp": "24 Mar 2025 15:03:51:306", "temperaturUdara":22.9, "kelembapanUdara":86.4, "kelembapanTanah":0, "nilaiAOC":740, "ukuranPaket":157}	15:03:52:585 -> TerIma: { "nomorPaket":21, "timestamp": "24 Mar 2025 15:03:52:322", "temperaturUdara":23, "kelembapanUdara":86.5, "kelembapanTanah":0, "nilaiAOC":705, "ukuranPaket":157}	15:03:53:650 -> TerIma: { "nomorPaket":22, "timestamp": "24 Mar 2025 15:03:53:332", "temperaturUdara":23, "kelembapanUdara":86.5, "kelembapanTanah":0, "nilaiAOC":707, "ukuranPaket":157}	15:03:54:678 -> TerIma: { "nomorPaket":23, "timestamp": "24 Mar 2025 15:03:54:347", "temperaturUdara":22.9, "kelembapanUdara":86.6, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":157}	15:03:55:651 -> TerIma: { "nomorPaket":24, "timestamp": "24 Mar 2025 15:03:55:358", "temperaturUdara":22.9, "kelembapanUdara":86.6, "kelembapanTanah":0, "nilaiAOC":707, "ukuranPaket":157}	15:03:56:708 -> TerIma: { "nomorPaket":25, "timestamp": "24 Mar 2025 15:03:56:373", "temperaturUdara":22.9, "kelembapanUdara":86.7, "kelembapanTanah":0, "nilaiAOC":704, "ukuranPaket":157}	15:03:57:688 -> TerIma: { "nomorPaket":26, "timestamp": "24 Mar 2025 15:03:57:382", "temperaturUdara":22.9, "kelembapanUdara":86.7, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":157}	15:03:58:683 -> TerIma: { "nomorPaket":27, "timestamp": "24 Mar 2025 15:03:58:398", "temperaturUdara":22.9, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":704, "ukuranPaket":157}	15:03:59:841 -> TerIma: { "nomorPaket":28, "timestamp": "24 Mar 2025 15:03:59:407", "temperaturUdara":22.9, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":709, "ukuranPaket":157}	15:04:00:833 -> TerIma: { "nomorPaket":29, "timestamp": "24 Mar 2025 15:04:00:422", "temperaturUdara":23, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":157}	15:04:01:756 -> TerIma: { "nomorPaket":30, "timestamp": "24 Mar 2025 15:04:01:432", "temperaturUdara":23, "kelembapanUdara":87.1, "kelembapanTanah":0, "nilaiAOC":707, "ukuranPaket":157}	15:04:02:736 -> TerIma: { "nomorPaket":31, "timestamp": "24 Mar 2025 15:04:02:447", "temperaturUdara":23, "kelembapanUdara":87, "kelembapanTanah":0, "nilaiAOC":706, "ukuranPaket":157}	15:04:03:760 -> TerIma: { "nomorPaket":32, "timestamp": "24 Mar 2025 15:04:03:457", "temperaturUdara":23, "kelembapanUdara":87, "kelembapanTanah":0, "nilaiAOC":708, "ukuranPaket":157}	15:04:04:744 -> TerIma: { "nomorPaket":33, "timestamp": "24 Mar 2025 15:04:04:472", "temperaturUdara":22.9, "kelembapanUdara":87, "kelembapanTanah":0, "nilaiAOC":694, "ukuranPaket":157}



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- b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta**

- 2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun**

tanpa izin Politeknik Negeri Jakarta

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1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- Data hasil eksperimen pertama jaringan satelit LEO Starlink pada waktu sore hari dengan kondisi cuaca hujan

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```
15:15:49.564 -> Kirim payload: {"nomorPaket":10,"timestamp":"24 Mar 2025 15:15:49.567","tempoaturUdah":"87.50","kelembapanTumbuh":94,"nilaiADC":367,"ukuranPaket":158}}
15:15:49.775 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":10,"timestamp":"24 Mar 2025 15:15:49.967","tempoaturUdah":"87.50","kelembapanTumbuh":94,"nilaiADC":367,"ukuranPaket":158}}}}
15:15:50.812 -> Kirim payload: {"nomorPaket":11,"timestamp":"24 Mar 2025 15:15:50.213","tempoaturUdah":"87.60","kelembapanTumbuh":90,"nilaiADC":374,"ukuranPaket":158}}
15:15:51.016 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":11,"timestamp":"24 Mar 2025 15:15:50.213","tempoaturUdah":"87.60","kelembapanTumbuh":90,"nilaiADC":374,"ukuranPaket":158}}}}
15:15:51.046 -> Kirim payload: {"nomorPaket":12,"timestamp":"24 Mar 2025 15:15:51.447","tempoaturUdah":"87.60","kelembapanTumbuh":92,"nilaiADC":372,"ukuranPaket":158}}
15:15:52.315 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":12,"timestamp":"24 Mar 2025 15:15:51.447","tempoaturUdah":"87.60","kelembapanTumbuh":92,"nilaiADC":372,"ukuranPaket":158}}}}
15:15:53.429 -> Kirim payload: {"nomorPaket":13,"timestamp":"24 Mar 2025 15:15:52.702","tempoaturUdah":"87.70","kelembapanTumbuh":96,"nilaiADC":361,"ukuranPaket":158}}
15:15:53.456 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":13,"timestamp":"24 Mar 2025 15:15:52.702","tempoaturUdah":"87.70","kelembapanTumbuh":96,"nilaiADC":361,"ukuranPaket":158}}}}
15:15:54.512 -> Kirim payload: {"nomorPaket":14,"timestamp":"24 Mar 2025 15:15:53.892","tempoaturUdah":"87.70","kelembapanTumbuh":91,"nilaiADC":370,"ukuranPaket":158}}
15:15:54.731 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":14,"timestamp":"24 Mar 2025 15:15:53.892","tempoaturUdah":"87.70","kelembapanTumbuh":91,"nilaiADC":370,"ukuranPaket":158}}}}
15:15:55.717 -> Kirim payload: {"nomorPaket":15,"timestamp":"24 Mar 2025 15:15:55.126","tempoaturUdah":"87.70","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}
15:15:55.905 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":15,"timestamp":"24 Mar 2025 15:15:55.126","tempoaturUdah":"87.70","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}}}
15:15:56.947 -> Kirim payload: {"nomorPaket":16,"timestamp":"24 Mar 2025 15:15:56.336","tempoaturUdah":"87.70","kelembapanTumbuh":86,"nilaiADC":394,"ukuranPaket":158}}
15:15:57.133 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":16,"timestamp":"24 Mar 2025 15:15:56.336","tempoaturUdah":"87.70","kelembapanTumbuh":86,"nilaiADC":394,"ukuranPaket":158}}}}
15:15:58.192 -> Kirim payload: {"nomorPaket":17,"timestamp":"24 Mar 2025 15:15:57.569","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":347,"ukuranPaket":159}}
15:15:58.376 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":17,"timestamp":"24 Mar 2025 15:15:57.569","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":347,"ukuranPaket":159}}}}
15:15:58.392 -> Kirim payload: {"nomorPaket":18,"timestamp":"24 Mar 2025 15:15:58.799","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":341,"ukuranPaket":159}}
15:15:59.428 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":18,"timestamp":"24 Mar 2025 15:15:58.799","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":341,"ukuranPaket":159}}}}
15:15:59.607 -> Kirim payload: {"nomorPaket":19,"timestamp":"24 Mar 2025 15:16:00.041","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":339,"ukuranPaket":159}}
15:16:00.638 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":19,"timestamp":"24 Mar 2025 15:16:00.041","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":339,"ukuranPaket":159}}}}
15:16:00.898 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":19,"timestamp":"24 Mar 2025 15:16:00.041","tempoaturUdah":"87.80","kelembapanTumbuh":100,"nilaiADC":339,"ukuranPaket":159}}}}
15:16:01.945 -> Kirim payload: {"nomorPaket":20,"timestamp":"24 Mar 2025 15:16:01.321","tempoaturUdah":"87.80","kelembapanTumbuh":95,"nilaiADC":365,"ukuranPaket":158}}
15:16:02.154 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":20,"timestamp":"24 Mar 2025 15:16:01.321","tempoaturUdah":"87.80","kelembapanTumbuh":95,"nilaiADC":365,"ukuranPaket":158}}}}
15:16:02.713 -> Kirim payload: {"nomorPaket":21,"timestamp":"24 Mar 2025 15:16:02.587","tempoaturUdah":"87.80","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}
15:16:03.718 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":21,"timestamp":"24 Mar 2025 15:16:02.587","tempoaturUdah":"87.80","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}}}
15:16:04.437 -> Kirim payload: {"nomorPaket":22,"timestamp":"24 Mar 2025 15:16:03.817","tempoaturUdah":"87.80","kelembapanTumbuh":84,"nilaiADC":401,"ukuranPaket":158}}
15:16:04.662 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":22,"timestamp":"24 Mar 2025 15:16:03.817","tempoaturUdah":"87.80","kelembapanTumbuh":84,"nilaiADC":401,"ukuranPaket":158}}}}
15:16:05.681 -> Kirim payload: {"nomorPaket":23,"timestamp":"24 Mar 2025 15:16:05.097","tempoaturUdah":"87.90","kelembapanTumbuh":91,"nilaiADC":379,"ukuranPaket":158}}
15:16:05.903 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":23,"timestamp":"24 Mar 2025 15:16:05.097","tempoaturUdah":"87.90","kelembapanTumbuh":91,"nilaiADC":379,"ukuranPaket":158}}}}
15:16:06.900 -> Kirim payload: {"nomorPaket":24,"timestamp":"24 Mar 2025 15:16:06.302","tempoaturUdah":"87.90","kelembapanTumbuh":95,"nilaiADC":364,"ukuranPaket":158}}
15:16:07.186 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":24,"timestamp":"24 Mar 2025 15:16:06.302","tempoaturUdah":"87.90","kelembapanTumbuh":95,"nilaiADC":364,"ukuranPaket":158}}}}
15:16:08.168 -> Kirim payload: {"nomorPaket":25,"timestamp":"24 Mar 2025 15:16:07.572","tempoaturUdah":"88.00","kelembapanTumbuh":83,"nilaiADC":396,"ukuranPaket":158}}
15:16:08.391 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":25,"timestamp":"24 Mar 2025 15:16:07.572","tempoaturUdah":"88.00","kelembapanTumbuh":83,"nilaiADC":396,"ukuranPaket":158}}}}
15:16:09.410 -> Kirim payload: {"nomorPaket":26,"timestamp":"24 Mar 2025 15:16:08.819","tempoaturUdah":"88.00","kelembapanTumbuh":96,"nilaiADC":370,"ukuranPaket":158}}
15:16:09.652 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":26,"timestamp":"24 Mar 2025 15:16:08.819","tempoaturUdah":"88.00","kelembapanTumbuh":96,"nilaiADC":370,"ukuranPaket":158}}}}
15:16:10.901 -> Kirim payload: {"nomorPaket":27,"timestamp":"24 Mar 2025 15:16:10.068","tempoaturUdah":"88.10","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}
15:16:11.918 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":27,"timestamp":"24 Mar 2025 15:16:10.068","tempoaturUdah":"88.10","kelembapanTumbuh":94,"nilaiADC":366,"ukuranPaket":158}}}}
15:16:12.171 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":28,"timestamp":"24 Mar 2025 15:16:11.327","tempoaturUdah":"88.10","kelembapanTumbuh":95,"nilaiADC":363,"ukuranPaket":158}}}}
15:16:13.165 -> Kirim payload: {"nomorPaket":29,"timestamp":"24 Mar 2025 15:16:12.563","tempoaturUdah":"88.20","kelembapanTumbuh":97,"nilaiADC":360,"ukuranPaket":158}}
15:16:13.370 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":29,"timestamp":"24 Mar 2025 15:16:12.563","tempoaturUdah":"88.20","kelembapanTumbuh":97,"nilaiADC":360,"ukuranPaket":158}}}}
15:16:14.383 -> Kirim payload: {"nomorPaket":30,"timestamp":"24 Mar 2025 15:16:13.785","tempoaturUdah":"88.20","kelembapanTumbuh":98,"nilaiADC":356,"ukuranPaket":158}}
15:16:14.562 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":30,"timestamp":"24 Mar 2025 15:16:13.785","tempoaturUdah":"88.20","kelembapanTumbuh":98,"nilaiADC":356,"ukuranPaket":158}}}}
15:16:15.621 -> Kirim payload: {"nomorPaket":31,"timestamp":"24 Mar 2025 15:16:15.000","tempoaturUdah":"88.20","kelembapanTumbuh":88,"nilaiADC":392,"ukuranPaket":158}}
15:16:15.789 -> HTTP response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"":{"nomorPaket":31,"timestamp":"24 Mar 2025 15:16:15.000","tempoaturUdah":"88.20","kelembapanTumbuh":88,"nilaiADC":392,"ukuranPaket":158}}}}
15:16:16.832 -> Kirim payload: {"nomorPaket":32,"timestamp":"24 Mar 2025 15:16:16.210","tempoaturUdah":"88.20","kelembapanTumbuh":74,"nilaiADC":428,"ukuranPaket":158}}
```




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```
{
  "id": "151617038",
  "url": "http://151617038",
  "method": "GET",
  "status": 200,
  "message": "Success",
  "payload": {
    "raw_data": {
      "timestamp": "2024-03-20T15:16:17.038Z",
      "temperature": 22.30,
      "humidity": 62.10,
      "pressure": 1013.25,
      "wind_speed": 1.5,
      "wind_direction": 90,
      "air_quality": {
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        "pm10": 25,
        "o3": 40,
        "no2": 30,
        "so2": 10,
        "co": 0.5
      },
      "light_intensity": 150,
      "noise_level": 40,
      "vibration": 0.1,
      "proximity": 100,
      "motion": "stationary",
      "acceleration": {
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        "y": 0.0,
        "z": 9.8
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        "y": 0.0,
        "z": 0.0
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        "y": 0.0,
        "z": 0.0
      },
      "barometer": 1013.25,
      "altitude": 0,
      "location": {
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        "longitude": 0,
        "altitude": 0
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      "timestamp": "2024-03-20T15:16:17.038Z",
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        "y": 0.0,
        "z": 9.8
      },
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        "y": 0.0,
        "z": 0.0
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      "location": {
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        "longitude": 0,
        "altitude": 0
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      "pm10": 25,
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      "no2": 30,
      "so2": 10,
      "co": 0.5
    },
    "light_intensity": 150,
    "noise_level": 40,
    "vibration": 0.1,
    "proximity": 100,
    "motion": "stationary",
    "acceleration": {
      "x": 0.0,
      "y": 0.0,
      "z": 9.8
    },
    "gyration": {
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      "y": 0.0,
      "z": 0.0
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    },
    "barometer": 1013.25,
    "altitude": 0,
    "location": {
      "latitude": 0,
      "longitude": 0,
      "altitude": 0
    }
  },
  "timestamp": "2024-03-20T15:16:17.038Z",
  "temperature": 22.30,
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  "pressure": 1013.25,
  "wind_speed": 1.5,
  "wind_direction": 90,
  "air_quality": {
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    "pm10": 25,
    "o3": 40,
    "no2": 30,
    "so2": 10,
    "co": 0.5
  },
  "light_intensity": 150,
  "noise_level": 40,
  "vibration": 0.1,
  "proximity": 100,
  "motion": "stationary",
  "acceleration": {
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    "y": 0.0,
    "z": 9.8
  },
  "gyration": {
    "x": 0.0,
    "y": 0.0,
    "z": 0.0
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    "y": 0.0,
    "z": 0.0
  },
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    "latitude": 0,
    "longitude": 0,
    "altitude": 0
  }
}
```



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15:16:45.095 > Kirim payload: {"nomorPaket":55,"timestamp":"24 Mar 2025 15:16:44.484","tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":757,"ukuranPaket":157}}
15:16:45.277 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":55,"timestamp":"24 Mar 2025 15:16:44.484"},"tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":757,"ukuranPaket":157}}
15:16:46.318 > Kirim payload: {"nomorPaket":56,"timestamp":"24 Mar 2025 15:16:45.700","tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":758,"ukuranPaket":157}}
15:16:46.509 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":56,"timestamp":"24 Mar 2025 15:16:45.700"},"tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":758,"ukuranPaket":157}}
15:16:47.548 > Kirim payload: {"nomorPaket":57,"timestamp":"24 Mar 2025 15:16:46.932","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:47.731 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":57,"timestamp":"24 Mar 2025 15:16:46.932"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:48.750 > Kirim payload: {"nomorPaket":58,"timestamp":"24 Mar 2025 15:16:47.163","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":725,"ukuranPaket":157}}
15:16:48.948 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":58,"timestamp":"24 Mar 2025 15:16:47.163"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":725,"ukuranPaket":157}}
15:16:50.003 > Kirim payload: {"nomorPaket":59,"timestamp":"24 Mar 2025 15:16:49.383","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":756,"ukuranPaket":157}}
15:16:50.197 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":59,"timestamp":"24 Mar 2025 15:16:49.383"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":756,"ukuranPaket":157}}
15:16:51.188 > Kirim payload: {"nomorPaket":60,"timestamp":"24 Mar 2025 15:16:50.600","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":725,"ukuranPaket":157}}
15:16:51.379 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":60,"timestamp":"24 Mar 2025 15:16:50.600"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":725,"ukuranPaket":157}}
15:16:52.386 > Kirim payload: {"nomorPaket":61,"timestamp":"24 Mar 2025 15:16:51.800","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":756,"ukuranPaket":157}}
15:16:52.548 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":61,"timestamp":"24 Mar 2025 15:16:51.800"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":756,"ukuranPaket":157}}
15:16:53.654 > Kirim payload: {"nomorPaket":62,"timestamp":"24 Mar 2025 15:16:52.035","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:53.856 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":62,"timestamp":"24 Mar 2025 15:16:52.035"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:54.867 > Kirim payload: {"nomorPaket":63,"timestamp":"24 Mar 2025 15:16:53.272","tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:16:55.074 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":63,"timestamp":"24 Mar 2025 15:16:53.272"},"tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:16:56.074 > Kirim payload: {"nomorPaket":64,"timestamp":"24 Mar 2025 15:16:55.454","tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":755,"ukuranPaket":157}}
15:16:56.279 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":64,"timestamp":"24 Mar 2025 15:16:55.454"},"tempoaturUdah":88.10,"kelembapanTumbuh":0,"nilaiADC":755,"ukuranPaket":157}}
15:16:57.297 > Kirim payload: {"nomorPaket":65,"timestamp":"24 Mar 2025 15:16:56.696","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:16:57.531 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":65,"timestamp":"24 Mar 2025 15:16:56.696"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:16:58.562 > Kirim payload: {"nomorPaket":66,"timestamp":"24 Mar 2025 15:16:57.946","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:58.804 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":66,"timestamp":"24 Mar 2025 15:16:57.946"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:16:59.835 > Kirim payload: {"nomorPaket":67,"timestamp":"24 Mar 2025 15:16:58.206","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
15:17:00.063 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":67,"timestamp":"24 Mar 2025 15:16:58.206"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
15:17:01.069 > Kirim payload: {"nomorPaket":68,"timestamp":"24 Mar 2025 15:17:00.457","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:01.310 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":68,"timestamp":"24 Mar 2025 15:17:00.457"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:02.335 > Kirim payload: {"nomorPaket":69,"timestamp":"24 Mar 2025 15:17:01.747","tempoaturUdah":87.90,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:17:02.517 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":69,"timestamp":"24 Mar 2025 15:17:01.747"},"tempoaturUdah":87.90,"kelembapanTumbuh":0,"nilaiADC":753,"ukuranPaket":157}}
15:17:03.538 > Kirim payload: {"nomorPaket":70,"timestamp":"24 Mar 2025 15:17:02.946","tempoaturUdah":87.90,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:03.830 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":70,"timestamp":"24 Mar 2025 15:17:02.946"},"tempoaturUdah":87.90,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:04.864 > Kirim payload: {"nomorPaket":71,"timestamp":"24 Mar 2025 15:17:03.248","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":751,"ukuranPaket":157}}
15:17:05.150 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":71,"timestamp":"24 Mar 2025 15:17:03.248"},"tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":751,"ukuranPaket":157}}
15:17:06.137 > Kirim payload: {"nomorPaket":72,"timestamp":"24 Mar 2025 15:17:05.549","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":740,"ukuranPaket":157}}
15:17:06.373 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":72,"timestamp":"24 Mar 2025 15:17:05.549"},"tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":740,"ukuranPaket":157}}
15:17:07.572 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":73,"timestamp":"24 Mar 2025 15:17:06.779","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:17:08.582 > Kirim payload: {"nomorPaket":74,"timestamp":"24 Mar 2025 15:17:07.991","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
15:17:08.817 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":74,"timestamp":"24 Mar 2025 15:17:07.991"},"tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
15:17:09.831 > Kirim payload: {"nomorPaket":75,"timestamp":"24 Mar 2025 15:17:08.241","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}
15:17:10.086 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":75,"timestamp":"24 Mar 2025 15:17:08.241"},"tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}
15:17:11.106 > Kirim payload: {"nomorPaket":76,"timestamp":"24 Mar 2025 15:17:10.504","tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:11.281 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":76,"timestamp":"24 Mar 2025 15:17:10.504"},"tempoaturUdah":87.80,"kelembapanTumbuh":0,"nilaiADC":754,"ukuranPaket":157}}
15:17:12.335 > Kirim payload: {"nomorPaket":77,"timestamp":"24 Mar 2025 15:17:11.716","tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
15:17:12.335 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":77,"timestamp":"24 Mar 2025 15:17:11.716"},"tempoaturUdah":88.00,"kelembapanTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}



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```
15:17:12.497 > HTTP: response: 200 {"status":200,"msg":"","payload":{"nw_data":{"monorPaket":{"77":{"timestamp":"","24 Mar 2025 15:17:11.716636","temperaturUdah":"","22.70","kelombapanTumbuh":"","88.00","kelombapanUdah":"","22.70","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}}}, {"monorPaket":{"78":{"timestamp":"","24 Mar 2025 15:17:12.926","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"79":{"timestamp":"","24 Mar 2025 15:17:13.157","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","748","ukuranPaket":"","157"}}}, {"monorPaket":{"80":{"timestamp":"","24 Mar 2025 15:17:15.412","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"81":{"timestamp":"","24 Mar 2025 15:17:16.636","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","749","ukuranPaket":"","157"}}}, {"monorPaket":{"82":{"timestamp":"","24 Mar 2025 15:17:17.853","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"83":{"timestamp":"","24 Mar 2025 15:17:18.067","temperaturUdah":"","22.70","kelombapanUdah":"","88.00","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"84":{"timestamp":"","24 Mar 2025 15:17:20.338","temperaturUdah":"","22.80","kelombapanUdah":"","88.40","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"85":{"timestamp":"","24 Mar 2025 15:17:21.618","temperaturUdah":"","22.80","kelombapanUdah":"","88.40","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"86":{"timestamp":"","24 Mar 2025 15:17:22.829","temperaturUdah":"","22.70","kelombapanUdah":"","88.40","kelombapanTumbuh":"","0","nilaiADC":"","754","ukuranPaket":"","157"}}}, {"monorPaket":{"87":{"timestamp":"","24 Mar 2025 15:17:23.089","temperaturUdah":"","22.80","kelombapanUdah":"","88.60","kelombapanTumbuh":"","0","nilaiADC":"","747","ukuranPaket":"","157"}}}, {"monorPaket":{"88":{"timestamp":"","24 Mar 2025 15:17:24.271","temperaturUdah":"","22.80","kelombapanUdah":"","88.60","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"89":{"timestamp":"","24 Mar 2025 15:17:26.472","temperaturUdah":"","22.80","kelombapanUdah":"","88.70","kelombapanTumbuh":"","0","nilaiADC":"","749","ukuranPaket":"","157"}}}, {"monorPaket":{"90":{"timestamp":"","24 Mar 2025 15:17:27.723","temperaturUdah":"","22.80","kelombapanUdah":"","88.70","kelombapanTumbuh":"","0","nilaiADC":"","753","ukuranPaket":"","157"}}}, {"monorPaket":{"91":{"timestamp":"","24 Mar 2025 15:17:28.959","temperaturUdah":"","22.80","kelombapanUdah":"","88.50","kelombapanTumbuh":"","0","nilaiADC":"","748","ukuranPaket":"","157"}}}, {"monorPaket":{"92":{"timestamp":"","24 Mar 2025 15:17:29.162","temperaturUdah":"","22.80","kelombapanUdah":"","88.50","kelombapanTumbuh":"","0","nilaiADC":"","752","ukuranPaket":"","157"}}}, {"monorPaket":{"93":{"timestamp":"","24 Mar 2025 15:17:31.376","temperaturUdah":"","22.90","kelombapanUdah":"","88.10","kelombapanTumbuh":"","0","nilaiADC":"","748","ukuranPaket":"","157"}}}, {"monorPaket":{"94":{"timestamp":"","24 Mar 2025 15:17:32.607","temperaturUdah":"","22.90","kelombapanUdah":"","88.10","kelombapanTumbuh":"","0","nilaiADC":"","753","ukuranPaket":"","157"}}}, {"monorPaket":{"95":{"timestamp":"","24 Mar 2025 15:17:33.848","temperaturUdah":"","22.90","kelombapanUdah":"","87.70","kelombapanTumbuh":"","0","nilaiADC":"","718","ukuranPaket":"","157"}}}, {"monorPaket":{"96":{"timestamp":"","24 Mar 2025 15:17:34.079","temperaturUdah":"","22.90","kelombapanUdah":"","87.70","kelombapanTumbuh":"","0","nilaiADC":"","750","ukuranPaket":"","157"}}}, {"monorPaket":{"97":{"timestamp":"","24 Mar 2025 15:17:35.285","temperaturUdah":"","22.90","kelombapanUdah":"","87.30","kelombapanTumbuh":"","0","nilaiADC":"","752","ukuranPaket":"","157"}}}, {"monorPaket":{"98":{"timestamp":"","24 Mar 2025 15:17:35.523","temperaturUdah":"","22.90","kelombapanUdah":"","87.30","kelombapanTumbuh":"","0","nilaiADC":"","754","ukuranPaket":"","157"}}}, {"monorPaket":{"99":{"timestamp":"","24 Mar 2025 15:17:39.820","temperaturUdah":"","22.90","kelombapanUdah":"","87.20","kelombapanTumbuh":"","0","nilaiADC":"","716","ukuranPaket":"","157"}}}, {"monorPaket":{"100":{"timestamp":"","24 Mar 2025 15:17:41.051","temperaturUdah":"","22.90","kelombapanUdah":"","87.20","kelombapanTumbuh":"","0","nilaiADC":"","716","ukuranPaket":"","157"}}}}
```



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta**

tanpa izin Politeknik Negeri Jakarta

```
15:21:46.112-> Kirim payload: {"nomorPaket":1,"timestamp":"24 Mar 2025 15:21:45.035","temperaturUdara":23.70,"kelembapanUdara":83.60,"nilaiADC":716,"ukuranPaket":156}
```




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1522:11:756 > Kirim payload: {"nomorPaket":20,"timestamp":"24 Mar 2025 15:22:10:650","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
1522:11:915 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":20,"timestamp":"24 Mar 2025 15:22:10:650","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:12:922 > Kirim payload: {"nomorPaket":21,"timestamp":"24 Mar 2025 15:22:11:835","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}
1522:13:108 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":21,"timestamp":"24 Mar 2025 15:22:11:835","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}}
1522:13:108 > Kirim payload: {"nomorPaket":22,"timestamp":"24 Mar 2025 15:22:13:047","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
1522:14:309 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":22,"timestamp":"24 Mar 2025 15:22:13:047","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:15:328 > Kirim payload: {"nomorPaket":23,"timestamp":"24 Mar 2025 15:22:14:255","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}
1522:15:342 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":23,"timestamp":"24 Mar 2025 15:22:14:255","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}}
1522:16:548 > Kirim payload: {"nomorPaket":24,"timestamp":"24 Mar 2025 15:22:15:469","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
1522:16:758 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":24,"timestamp":"24 Mar 2025 15:22:15:469","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}}
1522:17:796 > Kirim payload: {"nomorPaket":25,"timestamp":"24 Mar 2025 15:22:16:698","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":701,"ukuranPaket":157}}
1522:17:957 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":25,"timestamp":"24 Mar 2025 15:22:16:698","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":701,"ukuranPaket":157}}}
1522:18:984 > Kirim payload: {"nomorPaket":26,"timestamp":"24 Mar 2025 15:22:17:902","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}
1522:19:133 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":26,"timestamp":"24 Mar 2025 15:22:17:902","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
1522:20:355 > Kirim payload: {"nomorPaket":27,"timestamp":"24 Mar 2025 15:22:19:076","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}
1522:20:326 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":27,"timestamp":"24 Mar 2025 15:22:19:076","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
1522:21:344 > Kirim payload: {"nomorPaket":28,"timestamp":"24 Mar 2025 15:22:20:270","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
1522:21:537 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":28,"timestamp":"24 Mar 2025 15:22:20:270","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}}
1522:22:585 > Kirim payload: {"nomorPaket":29,"timestamp":"24 Mar 2025 15:22:21:476","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
1522:22:717 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":29,"timestamp":"24 Mar 2025 15:22:21:476","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:23:756 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":30,"timestamp":"24 Mar 2025 15:22:22:658","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:23:965 > Kirim payload: {"nomorPaket":31,"timestamp":"24 Mar 2025 15:22:23:885","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}
1522:24:972 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":31,"timestamp":"24 Mar 2025 15:22:23:885","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}}
1522:25:196 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":32,"timestamp":"24 Mar 2025 15:22:25:090","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:26:323 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":32,"timestamp":"24 Mar 2025 15:22:25:090","tempoaurUdah":"83.30","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:27:372 > Kirim payload: {"nomorPaket":33,"timestamp":"24 Mar 2025 15:22:26:267","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}
1522:27:520 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":33,"timestamp":"24 Mar 2025 15:22:26:267","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":747,"ukuranPaket":157}}}
1522:28:546 > Kirim payload: {"nomorPaket":34,"timestamp":"24 Mar 2025 15:22:27:441","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}
1522:28:664 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":34,"timestamp":"24 Mar 2025 15:22:27:441","tempoaurUdah":"83.20","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
1522:29:676 > Kirim payload: {"nomorPaket":35,"timestamp":"24 Mar 2025 15:22:28:596","tempoaurUdah":"82.90","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
1522:29:833 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":35,"timestamp":"24 Mar 2025 15:22:28:596","tempoaurUdah":"82.90","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}}
1522:31:010 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":36,"timestamp":"24 Mar 2025 15:22:29:765","tempoaurUdah":"82.90","kelompokTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}}
1522:32:043 > Kirim payload: {"nomorPaket":37,"timestamp":"24 Mar 2025 15:22:30:929","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}
1522:32:151 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":37,"timestamp":"24 Mar 2025 15:22:30:929","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":748,"ukuranPaket":157}}}
1522:33:193 > Kirim payload: {"nomorPaket":38,"timestamp":"24 Mar 2025 15:22:32:096","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
1522:33:316 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":38,"timestamp":"24 Mar 2025 15:22:32:096","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}}
1522:34:339 > Kirim payload: {"nomorPaket":39,"timestamp":"24 Mar 2025 15:22:33:265","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":746,"ukuranPaket":157}}
1522:34:508 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":39,"timestamp":"24 Mar 2025 15:22:33:265","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":746,"ukuranPaket":157}}}
1522:35:513 > Kirim payload: {"nomorPaket":40,"timestamp":"24 Mar 2025 15:22:34:435","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}
1522:35:687 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":40,"timestamp":"24 Mar 2025 15:22:34:435","tempoaurUdah":"82.80","kelompokTumbuh":0,"nilaiADC":750,"ukuranPaket":157}}}
1522:36:751 > Kirim payload: {"nomorPaket":41,"timestamp":"24 Mar 2025 15:22:35:638","tempoaurUdah":"82.50","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}
1522:36:853 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":41,"timestamp":"24 Mar 2025 15:22:35:638","tempoaurUdah":"82.50","kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
1522:37:891 > Kirim payload: {"nomorPaket":42,"timestamp":"24 Mar 2025 15:22:36:791","tempoaurUdah":"82.50","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}
1522:37:891 > Kirim payload: {"nomorPaket":42,"timestamp":"24 Mar 2025 15:22:36:791","tempoaurUdah":"82.50","kelompokTumbuh":0,"nilaiADC":749,"ukuranPaket":157}}



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- [illegible]



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- [illegible]



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- Data hasil eksperimen pertama jaringan seluler by.U pada waktu sore hari dengan kondisi cuaca hujan

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15:30:14.190 => Krim payload: {"nomorPaket":1,"timestamp":"24 Mar 2025 15:30:13.113","tempurUtUda":"24.40","kelembapanUda":79.50,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}
15:30:14.326 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:13.113","tempurUtUda":"24.40","kelembapanUda":79.50,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}}}
15:30:15.347 => Krim payload: {"nomorPaket":2,"timestamp":"24 Mar 2025 15:30:14.266","tempurUtUda":"24.40","kelembapanUda":79.50,"kelembapanTanah":0,"nilaiADC":71.5,"ukuranPaket":156}
15:30:15.733 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:14.266","tempurUtUda":"24.40","kelembapanUda":79.50,"kelembapanTanah":0,"nilaiADC":71.5,"ukuranPaket":156}}}
15:30:16.769 => Krim payload: {"nomorPaket":3,"timestamp":"24 Mar 2025 15:30:15.660","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}
15:30:16.883 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:15.660","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}}}
15:30:17.921 => Krim payload: {"nomorPaket":4,"timestamp":"24 Mar 2025 15:30:16.814","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.7,"ukuranPaket":156}
15:30:18.102 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:16.814","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.7,"ukuranPaket":156}}}
15:30:19.152 => Krim payload: {"nomorPaket":5,"timestamp":"24 Mar 2025 15:30:17.036","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.5,"ukuranPaket":156}
15:30:19.312 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:17.036","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.5,"ukuranPaket":156}}}
15:30:20.333 => Krim payload: {"nomorPaket":6,"timestamp":"24 Mar 2025 15:30:19.253","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}
15:30:20.503 => HTTP response: 200 {"Status":200,"msg":"Success","payload":{"raw_data":{"timestamp":"24 Mar 2025 15:30:19.253","tempurUtUda":"24.40","kelembapanUda":79.00,"kelembapanTanah":0,"nilaiADC":71.6,"ukuranPaket":156}}}
15:30:21.540 => Krim payload: {"nomorPaket":7,"timestamp":"24 Mar 2025 15:30:20.430","tempurUtUda":"24.40","kelembapanUda":78.90,"kelembapanTanah":0,"nilaiADC":71.5,"ukuranPaket":156}

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1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- [illegible]



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- [illegible]



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :

- [illegible]



Hak Cipta milik Politeknik Negeri Jakarta

Hak Cipta :

1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian , penulisan Karya Ilmiah, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta
2. Dilarang mengumunkan dan memperbanyak sebagian atau seluruh Karya tulis ini dalam bentuk apapun tanpa izin Politeknik Negeri Jakarta

15:31:45:747 > Kirim payload: {"nomorPaket":75,"timestamp":"24 Mar 2025 15:31:46:679","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}
15:31:45:894 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":75,"timestamp":"24 Mar 2025 15:31:46:679","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}
15:31:46:921 > Kirim payload: {"nomorPaket":76,"timestamp":"24 Mar 2025 15:31:47:857","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}
15:31:47:081 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":76,"timestamp":"24 Mar 2025 15:31:47:857","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}}
15:31:48:069 > Kirim payload: {"nomorPaket":77,"timestamp":"24 Mar 2025 15:31:48:025","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}
15:31:48:300 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":77,"timestamp":"24 Mar 2025 15:31:48:025","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}
15:31:49:339 > Kirim payload: {"nomorPaket":78,"timestamp":"24 Mar 2025 15:31:50:270","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:31:49:539 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":78,"timestamp":"24 Mar 2025 15:31:50:270","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:31:50:592 > Kirim payload: {"nomorPaket":79,"timestamp":"24 Mar 2025 15:31:51:512","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}
15:31:50:783 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":79,"timestamp":"24 Mar 2025 15:31:51:512","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}}
15:31:51:834 > Kirim payload: {"nomorPaket":80,"timestamp":"24 Mar 2025 15:31:52:752","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:31:51:981 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":80,"timestamp":"24 Mar 2025 15:31:52:752","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:31:52:997 > Kirim payload: {"nomorPaket":81,"timestamp":"24 Mar 2025 15:31:53:927","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}
15:31:53:157 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":81,"timestamp":"24 Mar 2025 15:31:53:927","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}}
15:31:53:453 > Kirim payload: {"nomorPaket":82,"timestamp":"24 Mar 2025 15:31:55:113","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}
15:31:55:018 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":82,"timestamp":"24 Mar 2025 15:31:55:113","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}}
15:31:55:214 > Kirim payload: {"nomorPaket":83,"timestamp":"24 Mar 2025 15:31:56:333","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:31:56:226 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":83,"timestamp":"24 Mar 2025 15:31:56:333","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:31:56:487 > Kirim payload: {"nomorPaket":84,"timestamp":"24 Mar 2025 15:31:57:614","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}
15:31:57:571 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":84,"timestamp":"24 Mar 2025 15:31:57:614","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}}
15:31:58:767 > Kirim payload: {"nomorPaket":85,"timestamp":"24 Mar 2025 15:31:58:867","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}
15:31:58:957 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":85,"timestamp":"24 Mar 2025 15:31:58:867","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}}
15:32:00:017 > Kirim payload: {"nomorPaket":86,"timestamp":"24 Mar 2025 15:32:00:113","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}
15:32:00:145 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":86,"timestamp":"24 Mar 2025 15:32:00:113","tempoaurUdah":24,90,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}}
15:32:01:181 > Kirim payload: {"nomorPaket":87,"timestamp":"24 Mar 2025 15:32:01:290","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}
15:32:01:402 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":87,"timestamp":"24 Mar 2025 15:32:01:290","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}}
15:32:02:442 > Kirim payload: {"nomorPaket":88,"timestamp":"24 Mar 2025 15:32:02:533","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}
15:32:02:592 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":88,"timestamp":"24 Mar 2025 15:32:02:533","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":717,"ukuranPaket":157}}}
15:32:03:602 > Kirim payload: {"nomorPaket":89,"timestamp":"24 Mar 2025 15:32:03:703","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:32:03:875 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":89,"timestamp":"24 Mar 2025 15:32:03:703","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:32:04:859 > Kirim payload: {"nomorPaket":90,"timestamp":"24 Mar 2025 15:32:04:991","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}
15:32:05:073 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":90,"timestamp":"24 Mar 2025 15:32:04:991","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}}
15:32:06:353 > Kirim payload: {"nomorPaket":91,"timestamp":"24 Mar 2025 15:32:06:202","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:32:06:680 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":91,"timestamp":"24 Mar 2025 15:32:06:202","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:32:07:350 > Kirim payload: {"nomorPaket":92,"timestamp":"24 Mar 2025 15:32:07:470","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:32:07:534 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":92,"timestamp":"24 Mar 2025 15:32:07:470","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:32:08:572 > Kirim payload: {"nomorPaket":93,"timestamp":"24 Mar 2025 15:32:08:682","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}
15:32:08:766 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":93,"timestamp":"24 Mar 2025 15:32:08:682","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":719,"ukuranPaket":157}}}
15:32:09:765 > Kirim payload: {"nomorPaket":94,"timestamp":"24 Mar 2025 15:32:09:891","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:32:09:961 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":94,"timestamp":"24 Mar 2025 15:32:09:891","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:32:10:955 > Kirim payload: {"nomorPaket":95,"timestamp":"24 Mar 2025 15:32:11:087","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}
15:32:11:138 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":95,"timestamp":"24 Mar 2025 15:32:11:087","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":721,"ukuranPaket":157}}}
15:32:12:163 > Kirim payload: {"nomorPaket":96,"timestamp":"24 Mar 2025 15:32:12:290","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}
15:32:12:310 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":96,"timestamp":"24 Mar 2025 15:32:12:290","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":720,"ukuranPaket":157}}}
15:32:13:309 > Kirim payload: {"nomorPaket":97,"timestamp":"24 Mar 2025 15:32:13:438","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}
15:32:13:366 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_dan":{"nomorPaket":97,"timestamp":"24 Mar 2025 15:32:13:438","tempoaurUdah":25,00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}



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Data hasil eksperimen kedua jaringan seluler by.U pada waktu sore hari dengan kondisi cuaca hujan

15:32:13.527 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":97,"timestamp":"24 Mar 2025 15:32:13.438","temperturUdara":25.00,"kelembapanTanah":78.50,"kelembapanUdara":72.00,"nilaiADC":718,"ukuranPaket":157}}}	15:32:14.567 => Kirim payload: {"nomorPaket":98,"timestamp":"24 Mar 2025 15:32:14.652","temperturUdara":25.00,"kelembapanTanah":78.50,"kelembapanUdara":718,"ukuranPaket":157}}
15:32:14.705 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":98,"timestamp":"24 Mar 2025 15:32:14.652","temperturUdara":25.00,"kelembapanTanah":78.50,"kelembapanUdara":718,"ukuranPaket":157}}}	15:32:15.919 => Kirim payload: {"nomorPaket":99,"timestamp":"24 Mar 2025 15:32:15.045","temperturUdara":25.00,"kelembapanTanah":78.50,"kelembapanUdara":721,"ukuranPaket":157}}
15:32:16.093 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":99,"timestamp":"24 Mar 2025 15:32:15.045","temperturUdara":25.00,"kelembapanTanah":78.50,"kelembapanUdara":721,"ukuranPaket":157}}}	15:32:17.092 => Kirim payload: {"nomorPaket":100,"timestamp":"24 Mar 2025 15:32:16.203","temperturUdara":25.10,"kelembapanTanah":78.60,"kelembapanUdara":717,"ukuranPaket":158}}
15:32:17.311 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":100,"timestamp":"24 Mar 2025 15:32:16.203","temperturUdara":25.10,"kelembapanTanah":78.60,"kelembapanUdara":717,"ukuranPaket":158}}}	15:32:18.426 => Kirim payload: {"nomorPaket":101,"timestamp":"24 Mar 2025 15:38:42.010","temperturUdara":25.50,"kelembapanTanah":77.380,"kelembapanUdara":713,"ukuranPaket":156}}
15:38:42.808 => Kirim payload: {"nomorPaket":102,"timestamp":"24 Mar 2025 15:38:43.216","temperturUdara":25.50,"kelembapanTanah":77.380,"kelembapanUdara":716,"ukuranPaket":156}}	15:38:43.940 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":102,"timestamp":"24 Mar 2025 15:38:43.216","temperturUdara":25.50,"kelembapanTanah":77.380,"kelembapanUdara":716,"ukuranPaket":156}}
15:38:44.998 => Kirim payload: {"nomorPaket":103,"timestamp":"24 Mar 2025 15:38:44.369","temperturUdara":25.50,"kelembapanTanah":77.410,"kelembapanUdara":710,"ukuranPaket":156}}	15:38:45.118 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":103,"timestamp":"24 Mar 2025 15:38:44.369","temperturUdara":25.50,"kelembapanTanah":77.410,"kelembapanUdara":710,"ukuranPaket":156}}
15:38:46.170 => Kirim payload: {"nomorPaket":104,"timestamp":"24 Mar 2025 15:38:45.549","kelembapanUdara":25.50,"kelembapanTanah":77.410,"kelembapanUdara":718,"ukuranPaket":156}}	15:38:46.402 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":104,"timestamp":"24 Mar 2025 15:38:45.549","temperturUdara":25.50,"kelembapanTanah":77.410,"kelembapanUdara":718,"ukuranPaket":156}}
15:38:47.433 => Kirim payload: {"nomorPaket":105,"timestamp":"24 Mar 2025 15:38:46.813","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}	15:38:47.600 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":105,"timestamp":"24 Mar 2025 15:38:46.813","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}
15:38:48.638 => Kirim payload: {"nomorPaket":106,"timestamp":"24 Mar 2025 15:38:48.031","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":718,"ukuranPaket":156}}	15:38:48.785 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":106,"timestamp":"24 Mar 2025 15:38:48.031","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":718,"ukuranPaket":156}}
15:38:49.827 => Kirim payload: {"nomorPaket":107,"timestamp":"24 Mar 2025 15:38:49.206","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":714,"ukuranPaket":156}}	15:38:49.978 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":107,"timestamp":"24 Mar 2025 15:38:49.206","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":714,"ukuranPaket":156}}
15:38:50.966 => Kirim payload: {"nomorPaket":108,"timestamp":"24 Mar 2025 15:38:50.379","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}	15:38:51.189 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":108,"timestamp":"24 Mar 2025 15:38:50.379","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}
15:38:52.204 => Kirim payload: {"nomorPaket":109,"timestamp":"24 Mar 2025 15:38:51.582","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}	15:38:52.331 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":109,"timestamp":"24 Mar 2025 15:38:51.582","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":716,"ukuranPaket":156}}
15:38:53.346 => Kirim payload: {"nomorPaket":110,"timestamp":"24 Mar 2025 15:38:52.760","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":717,"ukuranPaket":157}}	15:38:53.530 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":110,"timestamp":"24 Mar 2025 15:38:52.760","temperturUdara":25.40,"kelembapanTanah":77.420,"kelembapanUdara":717,"ukuranPaket":157}}
15:38:54.541 => Kirim payload: {"nomorPaket":111,"timestamp":"24 Mar 2025 15:38:53.953","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}	15:38:54.715 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":111,"timestamp":"24 Mar 2025 15:38:53.953","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}
15:38:55.719 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":112,"timestamp":"24 Mar 2025 15:38:55.129","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}	15:38:56.010 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":112,"timestamp":"24 Mar 2025 15:38:55.129","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}
15:38:57.041 => Kirim payload: {"nomorPaket":113,"timestamp":"24 Mar 2025 15:38:56.437","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}	15:38:57.228 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":113,"timestamp":"24 Mar 2025 15:38:56.437","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":717,"ukuranPaket":157}}
15:38:58.266 => Kirim payload: {"nomorPaket":14,"timestamp":"24 Mar 2025 15:38:57.653","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":716,"ukuranPaket":157}}	15:38:58.465 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":14,"timestamp":"24 Mar 2025 15:38:57.653","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":716,"ukuranPaket":157}}
15:38:59.485 => Kirim payload: {"nomorPaket":15,"timestamp":"24 Mar 2025 15:38:58.889","temperturUdara":25.30,"kelembapanTanah":77.440,"kelembapanUdara":716,"ukuranPaket":157}}	15:39:00.929 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":15,"timestamp":"24 Mar 2025 15:38:58.889","temperturUdara":25.30,"kelembapanTanah":77.440,"kelembapanUdara":716,"ukuranPaket":157}}
15:39:01.210 => HTTP response: 200 {"status":200,"msg":"","payload":{"nw_data":{"nomorPaket":16,"timestamp":"24 Mar 2025 15:39:00.322","temperturUdara":25.30,"kelembapanTanah":77.440,"kelembapanUdara":712,"ukuranPaket":157}}	15:39:02.254 => Kirim payload: {"nomorPaket":17,"timestamp":"24 Mar 2025 15:39:01.629","temperturUdara":25.40,"kelembapanTanah":77.430,"kelembapanUdara":712,"ukuranPaket":157}}



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15:39:29.960 > Kirim payload: {"nomorPaket":40,"timestamp":"24 Mar 2025 15:39:29.374","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:30.140 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":40,"timestamp":"24 Mar 2025 15:39:29.374","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:31.161 > Kirim payload: {"nomorPaket":41,"timestamp":"24 Mar 2025 15:39:30.576","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}	15:39:31.314 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":41,"timestamp":"24 Mar 2025 15:39:30.576","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}
15:39:32.330 > Kirim payload: {"nomorPaket":42,"timestamp":"24 Mar 2025 15:39:31.736","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:32.485 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":42,"timestamp":"24 Mar 2025 15:39:31.736","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:33.491 > Kirim payload: {"nomorPaket":43,"timestamp":"24 Mar 2025 15:39:32.906","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:33.691 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":43,"timestamp":"24 Mar 2025 15:39:32.906","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:34.703 > Kirim payload: {"nomorPaket":44,"timestamp":"24 Mar 2025 15:39:34.091","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:34.820 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":44,"timestamp":"24 Mar 2025 15:39:34.091","tempo":25.10,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:35.863 > Kirim payload: {"nomorPaket":45,"timestamp":"24 Mar 2025 15:39:35.250","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}	15:39:36.015 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":45,"timestamp":"24 Mar 2025 15:39:35.250","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
15:39:37.025 > Kirim payload: {"nomorPaket":46,"timestamp":"24 Mar 2025 15:39:36.435","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:37.170 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":46,"timestamp":"24 Mar 2025 15:39:36.435","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:38.366 > Kirim payload: {"nomorPaket":47,"timestamp":"24 Mar 2025 15:39:37.766","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:38.595 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":47,"timestamp":"24 Mar 2025 15:39:37.766","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:39.648 > Kirim payload: {"nomorPaket":48,"timestamp":"24 Mar 2025 15:39:39.025","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}	15:39:39.874 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":48,"timestamp":"24 Mar 2025 15:39:39.025","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}
15:39:40.834 > Kirim payload: {"nomorPaket":49,"timestamp":"24 Mar 2025 15:39:40.238","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}	15:39:41.031 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":49,"timestamp":"24 Mar 2025 15:39:40.238","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":715,"ukuranPaket":157}}}
15:39:42.053 > Kirim payload: {"nomorPaket":50,"timestamp":"24 Mar 2025 15:39:41.462","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}	15:39:42.190 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":50,"timestamp":"24 Mar 2025 15:39:41.462","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}
15:39:43.270 > Kirim payload: {"nomorPaket":51,"timestamp":"24 Mar 2025 15:39:43.672","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}	15:39:43.426 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":51,"timestamp":"24 Mar 2025 15:39:43.672","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}
15:39:44.423 > Kirim payload: {"nomorPaket":52,"timestamp":"24 Mar 2025 15:39:44.831","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:44.646 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":52,"timestamp":"24 Mar 2025 15:39:44.831","tempo":25.00,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:45.640 > Kirim payload: {"nomorPaket":53,"timestamp":"24 Mar 2025 15:39:45.040","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:46.000 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":53,"timestamp":"24 Mar 2025 15:39:45.040","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:47.006 > Kirim payload: {"nomorPaket":54,"timestamp":"24 Mar 2025 15:39:46.418","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}	15:39:47.278 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":54,"timestamp":"24 Mar 2025 15:39:46.418","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":718,"ukuranPaket":157}}}
15:39:48.295 > Kirim payload: {"nomorPaket":55,"timestamp":"24 Mar 2025 15:39:48.676","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:48.595 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":55,"timestamp":"24 Mar 2025 15:39:48.676","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}
15:39:49.594 > Kirim payload: {"nomorPaket":56,"timestamp":"24 Mar 2025 15:39:49.988","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}	15:39:50.830 > Kirim payload: {"nomorPaket":57,"timestamp":"24 Mar 2025 15:39:50.206","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}
15:39:51.127 > Kirim payload: {"nomorPaket":58,"timestamp":"24 Mar 2025 15:39:51.540","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	15:39:51.426 > Kirim payload: {"nomorPaket":59,"timestamp":"24 Mar 2025 15:39:51.827","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}
15:39:53.576 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":59,"timestamp":"24 Mar 2025 15:39:51.827","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}	15:39:54.629 > Kirim payload: {"nomorPaket":60,"timestamp":"24 Mar 2025 15:39:54.006","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}
15:39:54.731 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":60,"timestamp":"24 Mar 2025 15:39:54.006","tempo":24.90,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}}	15:39:55.911 > HTTP-response: 200 {"status":200,"msg":"Success","payload":{"nw_data":{"nomorPaket":61,"timestamp":"24 Mar 2025 15:39:55.160","tempo":24.80,"kelompokTumbuh":0,"nilaiADC":714,"ukuranPaket":157}}}
15:39:56.931 > Kirim payload: {"nomorPaket":62,"timestamp":"24 Mar 2025 15:39:56.308","tempo":24.80,"kelompokTumbuh":0,"nilaiADC":716,"ukuranPaket":157}}	



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15:40:24.499 > Kirim payload: {"nomorPaket":"85","timestamp":"24 Mar 2025 15:40:24.910","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}
15:40:24.639 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"85","timestamp":"24 Mar 2025 15:40:24.910","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}}}
15:40:25.670 > Kirim payload: {"nomorPaket":"86","timestamp":"24 Mar 2025 15:40:25.064","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:25.850 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"86","timestamp":"24 Mar 2025 15:40:25.064","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:26.843 > Kirim payload: {"nomorPaket":"87","timestamp":"24 Mar 2025 15:40:26.253","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}
15:40:26.966 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"87","timestamp":"24 Mar 2025 15:40:26.253","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}}}
15:40:27.989 > Kirim payload: {"nomorPaket":"88","timestamp":"24 Mar 2025 15:40:27.394","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:28.195 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"88","timestamp":"24 Mar 2025 15:40:27.394","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:29.177 > Kirim payload: {"nomorPaket":"89","timestamp":"24 Mar 2025 15:40:28.584","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}
15:40:29.375 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"89","timestamp":"24 Mar 2025 15:40:28.584","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}}}
15:40:30.431 > Kirim payload: {"nomorPaket":"90","timestamp":"24 Mar 2025 15:40:30.803","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:30.548 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"90","timestamp":"24 Mar 2025 15:40:30.803","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:31.559 > Kirim payload: {"nomorPaket":"91","timestamp":"24 Mar 2025 15:40:31.964","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}
15:40:31.771 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"91","timestamp":"24 Mar 2025 15:40:31.964","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}}}
15:40:32.796 > Kirim payload: {"nomorPaket":"92","timestamp":"24 Mar 2025 15:40:32.167","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:32.997 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"92","timestamp":"24 Mar 2025 15:40:32.167","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:33.058 > Kirim payload: {"nomorPaket":"93","timestamp":"24 Mar 2025 15:40:33.431","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}
15:40:33.344 > Kirim payload: {"nomorPaket":"94","timestamp":"24 Mar 2025 15:40:33.755","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"717","ukuranPaket":157}}
15:40:33.530 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"94","timestamp":"24 Mar 2025 15:40:33.755","tempurutUdah":"24.60","kelembapanTumbuh":"0","nilaiADC":"717","ukuranPaket":157}}}}
15:40:36.553 > Kirim payload: {"nomorPaket":"95","timestamp":"24 Mar 2025 15:40:36.964","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}
15:40:36.819 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"95","timestamp":"24 Mar 2025 15:40:36.964","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"713","ukuranPaket":157}}}}
15:40:37.819 > Kirim payload: {"nomorPaket":"96","timestamp":"24 Mar 2025 15:40:37.231","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:38.052 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"96","timestamp":"24 Mar 2025 15:40:37.231","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:39.067 > Kirim payload: {"nomorPaket":"97","timestamp":"24 Mar 2025 15:40:38.447","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}
15:40:39.176 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"97","timestamp":"24 Mar 2025 15:40:38.447","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}}}
15:40:40.212 > Kirim payload: {"nomorPaket":"98","timestamp":"24 Mar 2025 15:40:39.590","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}
15:40:40.354 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"98","timestamp":"24 Mar 2025 15:40:39.590","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":157}}}}
15:40:41.375 > Kirim payload: {"nomorPaket":"99","timestamp":"24 Mar 2025 15:40:41.788","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}
15:40:41.553 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"99","timestamp":"24 Mar 2025 15:40:41.788","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"714","ukuranPaket":157}}}}
15:40:42.571 > Kirim payload: {"nomorPaket":"100","timestamp":"24 Mar 2025 15:40:42.976","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":158}}
15:40:42.720 > HTTP response: 200 {"status":"Success","msg":"","raw_data":{"":{"nomorPaket":"100","timestamp":"24 Mar 2025 15:40:42.976","tempurutUdah":"24.50","kelembapanTumbuh":"0","nilaiADC":"716","ukuranPaket":158}}}}
```



Lampiran 3 Kode Program Perangkat Pengukur RSSI

```
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>
#include <ESP8266WiFi.h>
#include <NTCPClient.h>
#include <WiFiUdp.h>
#include <time.h>
#define SCREEN_WIDTH 128
#define SCREEN_HEIGHT 64
#define OLED_RESET -1
Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, OLED_RESET);
const char* ssid = "ssid";
const char* password = "password";
WiFiUDP ntpUDP;
NTCPClient timeClient(ntpUDP, "pool.ntp.org", 25200, 60000); // UTC+7 GMT+7 WIB
const char* daysOfTheWeek[] = { "Minggu", "Senin", "Selasa", "Rabu", "Kamis", "Jumat", "Sabtu" };
const char* months[] = { "Jan", "Feb", "Mar", "Apr", "Mei", "Jun", "Jul", "Agu", "Sep", "Okt", "Nov", "Des" };
int LED = 2;
void setup() {
  Wire.begin(14, 12);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
  }
  timeClient.begin();
  if (!display.begin(SSD1306_SWITCHCAPVCC, 0x3C)) {
    for (;;)
      ;
  }
  display.setTextColor(SSD1306_WHITE);
  pinMode(LED, OUTPUT);
}
void loop() {
  if (WiFi.status() != WL_CONNECTED) {
    display.clearDisplay();
    display.setTextSize(1);
    display.setCursor(0, 0);
    display.printf("WiFi Disconnected");
    display.display();
    delay(1000);
    return;
  }
  timeClient.update();
  time_t rawTime = timeClient.getEpochTime();
  struct tm timeInfo;
  gmtime_r(&rawTime, &timeInfo);
  int hours = timeInfo.tm_hour;
  int minutes = timeInfo.tm_min;
  int seconds = timeInfo.tm_sec;
  int day = timeInfo.tm_mday;
  int month = timeInfo.tm_mon;
  int year = timeInfo.tm_year + 1900;
  int weekDay = timeInfo.tm_wday;
  display.clearDisplay();
  display.setTextSize(2); display.setCursor(0, 0); display.printf("%02d:%02d:%02d", hours, minutes, seconds);
  display.setTextSize(1); display.setCursor(100, 7); display.printf("WIB");
  display.setTextSize(1); display.setCursor(0, 16); display.printf("%s, %02d %s %d", daysOfTheWeek[weekDay], day, months[month], year);
  display.setCursor(0, 32); display.printf("RSSI: %d dBm", WiFi.RSSI());
  display.setCursor(0, 47); display.printf("Eka Hero Ramadhani");
  display.setCursor(0, 57); display.printf("RKB MTTE PNJ");
  display.display();
  digitalWrite(LED, HIGH);
  delay(1000);
  digitalWrite(LED, LOW);
}
```

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Kepada
Eka Hero Ramadhani, I Ketut Agung Enriko, Erika Lety Istikhomah Puspita Sari, Ahmad Tossin Alamsyah, Muhammad Azza Ulin Nuha
Di Tempat

Assalamu'alaikum Wr. Wb.

Bersama surat ini, redaksi Jurnal Ilmiah Penelitian dan Pembelajaran Informatika (JIPI) Program Studi Pendidikan Teknologi Informasi Universitas Bhinneka PGRI menginformasikan kepada Bapak/Ibu bahwa naskah dengan judul : **"QOS ANALYSIS OF LEO SATELLITE BROADBAND NETWORK FOR IOT IN SMART FARMING"** telah diterima untuk diterbitkan pada Jurnal Ilmiah Penelitian dan Pembelajaran Informatika (JIPI) Vol.10 No.3 2025.

Kami mengucapkan terima kasih dan selamat atas diterimanya artikel tersebut. Kami juga mengharapkan artikel – artikel berikutnya untuk diterbitkan pada JIPI

Demikian surat kami, atas perhatian dan kerjasamanya kami sampaikan ucapan terimakasih.

Wassalamu'alaikum Wr. Wb.



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Lampiran 5 Surat Izin Penelitian Bahan Tesis di BBPP Lembang



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Perihal : Surat Izin Penelitian Bahan Tesis

3 Maret 2025

Yth.
Kepala Balai Besar Pelatihan Pertanian Lembang
Lembang, Bandung

Dengan hormat,
Melalui surat ini kami sampaikan sehubungan dengan proses penyusunan Tesis yang menjadi salah satu syarat yang harus dilaksanakan oleh Mahasiswa Program Pascasarjana Politeknik Negeri Jakarta, dengan ini kami mohon kesediaan Bapak/Ibu untuk mengizinkan mahasiswa kami dapat mencari data bahan untuk keperluan penelitian tesis dengan topik analisis kualitas infrastruktur jaringan seluler dan satelit *Low Earth Orbit* (LEO) beserta antenanya di daerah pertanian di lingkungan BBPP Lembang. Adapun mahasiswa yang namanya tercantum sebagai berikut :

No.	Nama	NIM	Nomor Telepon
1.	Eka Hero Ramadhani	2309511002	
2.	Rafiq Amalul Widodo	2309511007	
3.	Muhammad Miqdad Haidar Dzaky	2309511011	

Waktu pelaksanaan mencari data bahan untuk keperluan penelitian tesis tersebut adalah mulai tanggal 10 Maret 2025 s.d. 30 Juni 2025. Mahasiswa yang bersangkutan kami wajibkan untuk mengikuti prosedur dan tata tertib yang berlaku di Balai Besar Pelatihan Pertanian Lembang.

Demikian surat ini kami sampaikan. Atas bantuan dan kerja sama yang diberikan Bapak/Ibu kami ucapkan terima kasih.

Mengetahui,
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Lampiran 6 Foto Kegiatan Penelitian Tesis di BBPP Lembang

