PLANTIQ

TTCR010124



Plant IQ is an IoT-enabled temperature, humidity, and light intensity data logger designed for precision monitoring in various agricultural settings. With its advanced sensors and versatile microcontroller, it offers real-time insights to optimize growth conditions for plants.





TECHNICAL SPECIFICATION

SHT4x Temperature and Humidity Sensor:

- Temperature Range: -40°C to +125°C
- · Humidity Range: 0% to 100% RH
- Accuracy: ±0.2°C for temperature, ±1.8% RH for humidity
- Interface: I2C

LTE Module: SIM7670C

- Network Support: LTE-FDD, LTE-TDD, WCDMA
- Bands: Multi-band support
- Data Rates: LTE Cat 4 (150 Mbps DL, 50 Mbps UL)
- Interfaces: UART, SPI, I2C, GPIO

Bh1750 Light intensity sensor

- Measuring Rang: 1-65535lx
- Spectral Sensitivity: Close to human eye response
- Accuracy: ±20% (50,000 lux), ±30% (100,000 lux)
- Interface: I2C

FEATURES

- 24/7 Real-time Access via Smartphone and Web Dashboard
- Customizable for Specific Requirements
- Real-time Graphs & Report Generation
- Notifications & Alerts for Escalations
- Scalable and Modular Design
- Standalone or Integrated Mesh Network Operation Modes

ESP32: 32 bit Microprocessor

- Dual-core Tensilica LX6 microprocessor
- Clock Frequency: Up to 240 MHz
- RAM: 520 KB
- Connectivity: Wi-Fi, Bluetooth LE
- ADC Resolution: 12-bit SAR ADCs

APPLICATIONS

- Tissue Culture Racks
- Hydroponics & Aeroponics Farms
- Greenhouses
- Mushroom Farms



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