

LoRaIoT -Modbus

LoRaWAN Wireless Modbus Sensor

LoRaIoT is a rugged IOT device which communicates unidirectionally over a LoRaWAN network. It has a built in RS485 Modbus Master port. The Modbus Module is used for reading data from a Modbus Slave device and send it over LoRawan at periodic intervals. The number of registers should be limited to 16 . The device is 24 VDC Powered. The modbus module can be polled at 1 min or more interval, data is sent by device to LoRA gateway , which could be upto 4 km away in open areas or upto 2 Km in urban areas. The wireless communication is via LoRaWAN protocol. Data is available from Gateways thru RESTAPI/ HTTP/ MQTT protocol over LAN TCP/IP.

Features

- Compatible with LoRaWAN protocol
- PWR: 10-30VDC
- Built-in antenna
- Device configuration thru TTL serial port
- Transmits Data Sequence No., Modbus data string
- Compatible with LoRaWAN gateways, Cloud based Dashboard available

Communication

- Frequency: 865MHz – 867 Mhz
- Transmit Power: 19 dBm
- RF data rate: 37.5 Kbps
- Antenna: Internal Spring
- Peak Transmit Current: 130 mA @ 19 dBm
- Receive Current:<25 mA
- No. of Channels: 10
- Network topology: LoRaWAN Class A

Input Sensor

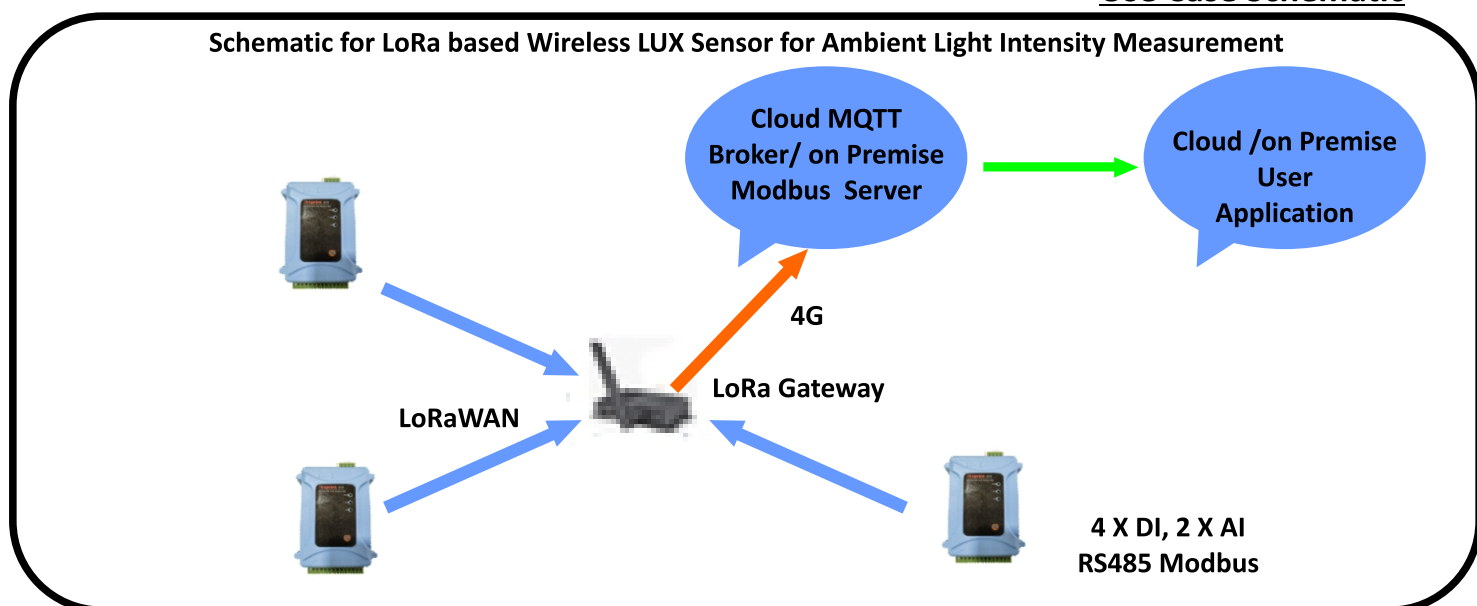
- 1x Modbus Slave (upto 16 Unsigned registers)



Common Specs

Optional :Aux Power: 10-30 VDC in lieu of Battery/ Solar
Mounting:Backplate / DIN Rail (TS35)
Dimension:105 (H) x 75 (W) x 60 (D) mm
Material:ABS
IP Rating:IP65
Operating Temperature:0- 70 degC

Use Case Schematic



Ordering Info:-

1. LoRaIoT-Modbus: LoRaWAN Wireless,1x Modbus Master RS485, PWR:10-30 VDC



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