

Airsprint -1050

4G/LTE IOT based Modbus RTU Gateway with I/O

Airsprint-1050 is a rugged GPRS based IoT device cum Gateway meant for sending Digital Events / Alarms, Analog Values and Modbus RTU device data to the cloud in a secure encrypted lightweight standard MQTT protocol.

It has built in SMS generation facilities based on Digital Change of State, Analog Values crossing Thresholds. Periodic data for configured parameters can be sent also thru SMS

Airsprint-1050 supports MQTT brokers on Cloud enabling IT Software Developers to do what they do best i.e. develop Web Clients or Android & Apple Applications and directly publish / subscribe to the required topics from the broker without worrying about the nitty gritty of device communications over GPRS. The MQTT brokers can handle tens of thousands of devices simultaneously allowing the software developer to roll out highly scalable solutions.

It can be used in any remote monitoring applications like Energy Monitoring, Water Monitoring, Solar Monitoring, Pump Control etc.

Hardware Features :-

- ARM32 bit CPU, 64 KB RAM
- 4G /LTE GPRS Module, Micro SIM holder
- 4 x Digital Inputs (Contact/Pulse/Fast DI)
- 2 x Analog Input (4-20 mA) , 12 bit ADC
- 2 x Digital Output (RelayO/P)
- 1 x RS485 ModbusMaster(Can handle upto 5 slave with 10 parameters each)
- Optional I/F for DS18B20 / NTC Thermistor sensor
- Optional: Battery Backup: 11.1 VDC, 1000 maHLi-Ion
- Aux Power: 10-30 VDC without Battery Backup
: 12 VDC 1.5 A Adaptor for Battery Backup
- Interface Connector: Screw Terminal 22AWG
- Mounting: Backplate / DIN Rail(TS35)
- Overall Dim.: 120(H) x 80(W) x 50 (D)mm
- Material: Polycarbonate
- IP Rating: IP54 with Screw Terminals, IP65 with Gland
- Operating Temperature: 0- 70degC



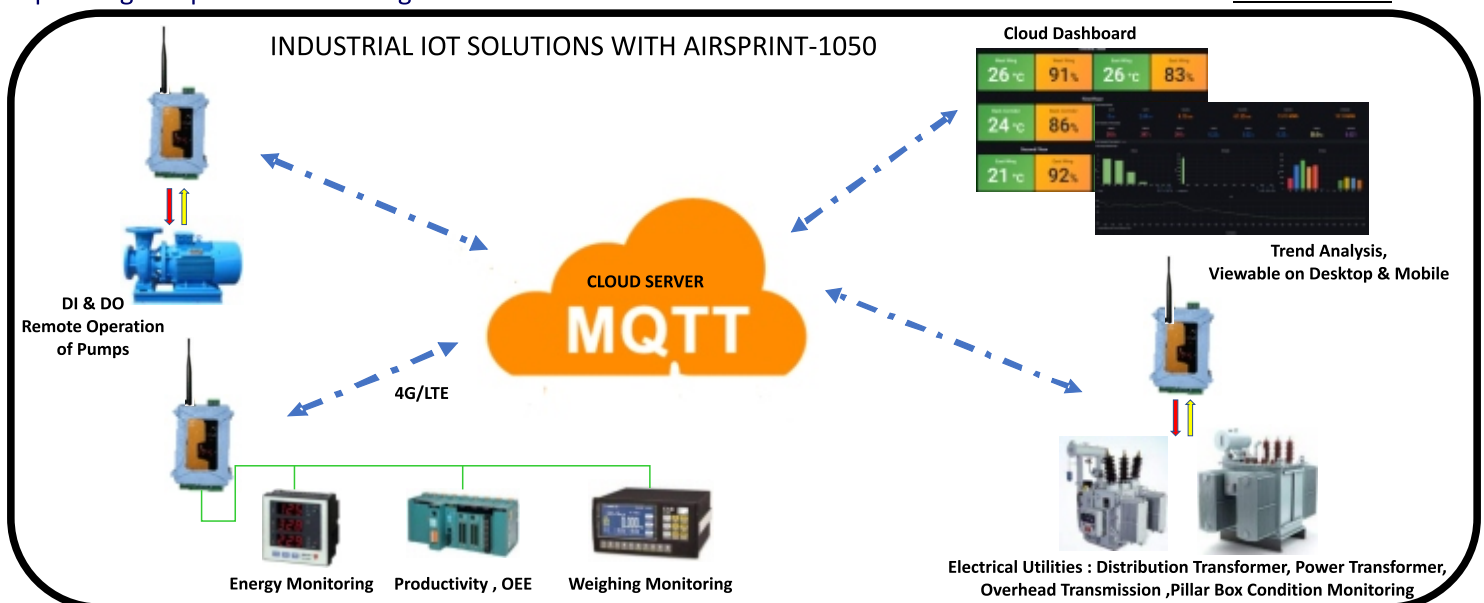
Firmware Features :-

- SMS settings : For Diagnostics , IP configuration etc
- Settings over MQTT for : Modbus Parameterisation, Alarm Settings for SMS MQTT Settings

SOFTWARE FOR DASHBOARDING :-

- WebSCADA for Custom Monitoring, Alarms and Reporting
- Grafana Dashboards for Trend based Analytics
- Android App for Monitoring

Schematic



Ordering Info:-

1. Airsprint -1050 -1: 4G/LTE IOT based Modbus RTU 4DI/2DO/2AI Gateway Aux : 10-30 VDC
2. Airsprint -1050 -2: 4G/LTE IOT based Modbus RTU 4DI/2DO/2AI Gateway with 11.1 V 1000 mA H Battery Backup Aux Pwr : 12 VDC



Micro System Foundations

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