Airsprint-2051
4G/LTE IOT based Modbus RTU Gateway with I/O

Airsprint-2051 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-2051 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
- ARM Cortex A7, 128 KB RAM, 512MB Flash Memory
- LINUX OS
- 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 (Relay O/P)
- 1 x RS485 Modbus Master (Can handle upto 5 slave with 10 parameters each)
- Optional: Battery Backup: 11.1 VDC, 1000 maH Li-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
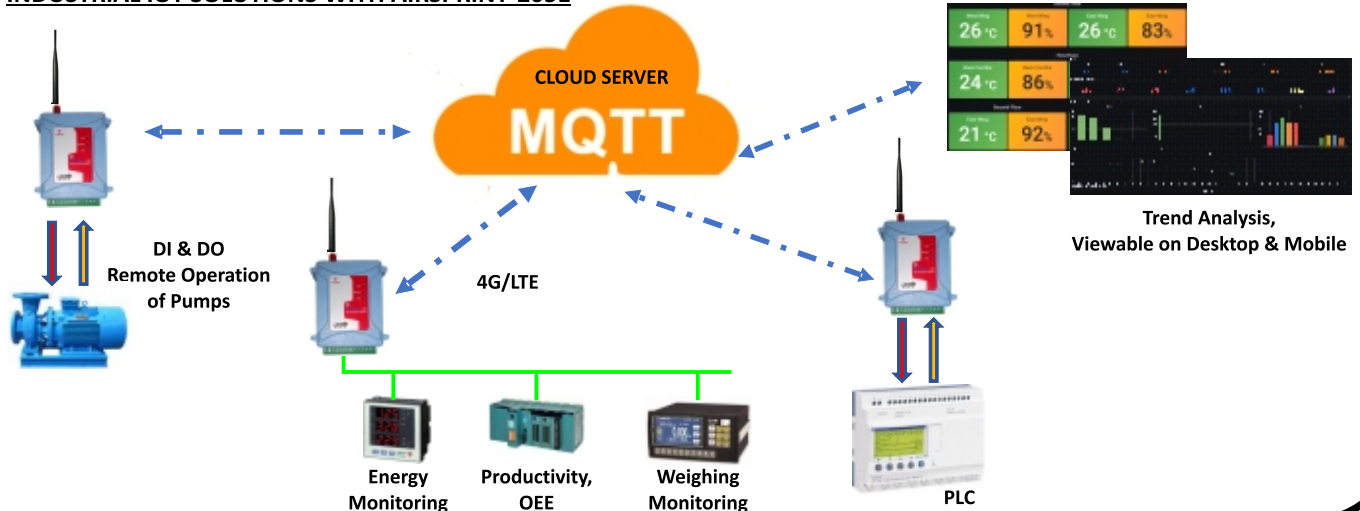- Operating Temperature: 0- 70 degC

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

INDUSTRIAL IOT SOLUTIONS WITH AIRSPRINT-2051

Cloud Dashboard

CLOUD SERVER

MQTT

DI & DO Remote Operation of Pumps

4G/LTE

Energy Monitoring

Productivity, OEE

Weighing Monitoring

PLC

Trend Analysis, Viewable on Desktop & Mobile

Ordering Info:-
1. Airsprint -2051 : 4G/LTE IOT based Modbus RTU RS485/ 4DI/2DO/2AI Gateway Aux : 10-30 VDC

Micro System Foundations

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