



Wireless Sensing and Control Module PMC-IOT-I

General Description

The PMC-IoT-I is a simple while very versatile module.

It can be accommodated to measure up to two analog sensors

Operation

The PMC-IoT-I Wireless Module measures the analog input levels. The module can be supplied with Temperature, Humidity, Pressure among other options.

The module sends the measured values to the gateway which registers the measured values on the IoT cloud. Data can be easily accessed from a web browser or mobile device.

Additional I/O capability

At the same time you can use up to two on/off inputs to detect open/closure status.

And also control to outputs to manage lights, door locks or other devices.

Settings

Settings include, communication interval, value scaling, notifications, alerts, and reports.

The Installation is simple and fast. You can order a pre configured system and add more sensor later on.

Encryption

The End-to-End Encryption insures no one can access your information or hack your system.

Applications

- Ambient temperature Sensing
- Environment monitoring
- Smart buildings
- HVAC sensing and control
- Data center monitoring

Features

- Reliable Wireless Communication
- Multiple sensors support
- Low consumption for long battery life
- RF Amplifier for long range
- End to End data Encryption
- Very low cost Cloud access and Storage
- Direct Alerts to mobile (Android, IOS under development).



Wireless Sensing and Control Module PMC-IoT-I Specifications



Specifications

Supply Voltage	Battery , nominal 3.8 volts External Power Supply 8-40 volts
Current Consumption	2 uA Module Sleep 8.5 ma Module idle 21 ma Module Transmit
Temperature Range	-10 to 85 degrees
Antenna	Internal or External Antenna (optional)
RF	2.4 Ghz WiFi and Bluetooth coexistence
Security	End-to-End Encryption, 128 bit, optional 256 bit.
Analog Inputs	2 (two) Customizable Analog Inputs
Digital Inputs	2 (two) 12 to 30 volts DC
Digital Outputs	2 (two) 100 ma, 100 volt



Sensing Options

Temperature	-55 to 125 grades Other ranges on request
Distance	Ultrasound sensing up to 10 meters
Humidity	5 to 95% non condensing
Voltage	0 - 600 volt, three phase option
Pressure	Range on request
Current	Range on request
Air Quality	CO2 level
Custom options	Sensing solutions on request



Power Micro Controls IoT Sensing and Control

Connection Schematic

