



Smart.Hub™ LT

Low Cost IoT Gateway For Whisker.Blocks

Introduction

The Smart.Hub™ LT IoT Gateway collects data from multiple (up to 100 or more) Whisker.Block[®] sensors and forwards the data to the cloud using a built in 4G Cat M1 network

It can be powered from a wall transformer or, for applications where reliability is a concern, it can be connected to one of our MicroUPS power supplies. When powered from a MicroUPS, it will operate for 48+ hours on battery back up when power is lost and it will send alert notifications when power is lost and when power is restored.

The Smart.Hub LT™ can be configured with a Modbus RTU (RS-485) interface. When configured with Modbus, the Smart.Hub can connect to PLCs, HIMs and other Modbus enabled devices, bridging them to our Whisker.io[®] cloud platform providing remote control and management of the connected devices using any mobile phone, tablet or PC.

The Smart.Hub™ LT communicates securely to the cloud using a built in 4G Cat M1 modem so it does not require access to customer networks or support from customer IT personnel.

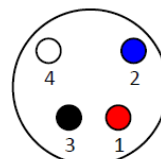
Part Numbers

| P/N | Description |
|-------------------|----------------------------------|
| SH1-9U-AT-DC-NNNN | Smart.Hub LT-no modbus |
| SH1-9U-AT-DC-MMNN | Smart.Hub LT-Modbus RTU (RS-485) |

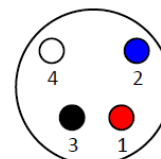
Features

- Supports hundreds of Whisker.Block battery powered IoT sensors
- Optional Modbus RTU interface
- Multiple Power Options—DC, MicroUPS
- Direct2Cloud air-gapped communications
- IP67 rated outdoor enclosure (DIN Rail, wall/pole mount)
- Simple to install, easy to use
- 24/7 remote monitoring /control from anywhere

Connector Wiring



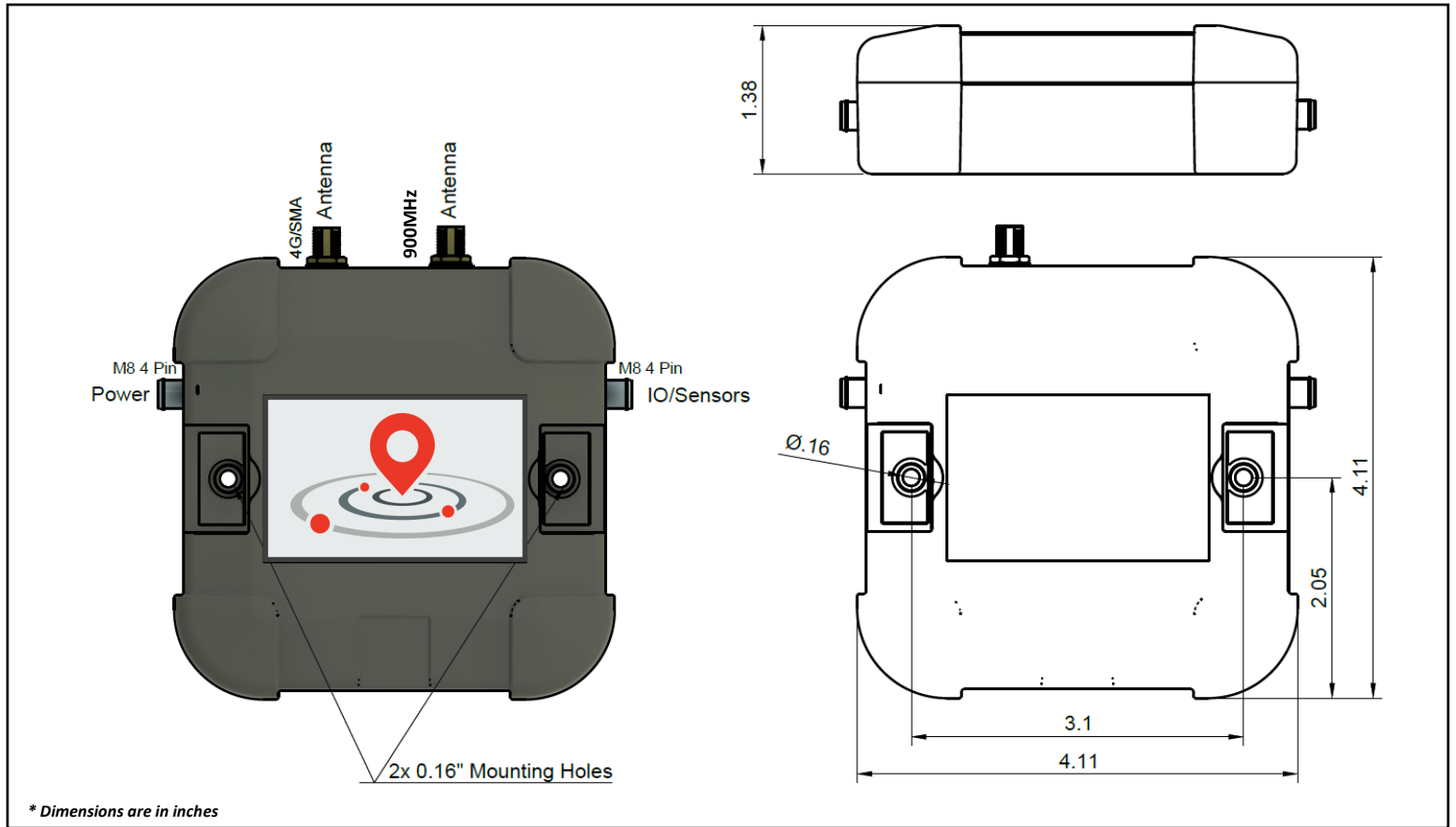
Con 2 (Left)



Con 1 (Right)

| Connector | Pin | Function | Description |
|-----------|-----|-------------|---------------------|
| 1 | 1 | DC Power In | 8-32V |
| 1 | 2 | Power Det | Low when power good |
| 1 | 3 | NA | NA |
| 1 | 4 | GND | Ground |
| 2 | 1 | NA | NA |
| 2 | 2 | A+ | RS-485 A+ |
| 2 | 3 | B- | RS-485 B- |
| 2 | 4 | GND | Ground |

Mechanical Drawings



Key Specifications

| Parameter | Minimum | Typical | Maximum | Units |
|---|---------|---------|---------|--------------------|
| Operating Temp. Range | -40 | | +85 | °C |
| Power Supply (External DC Power Option) | 8 | | 32 | VDC |
| Battery Backup (MicroUPS Power Option) | | 48 | | Hours ¹ |
| Power Supply Current—Average | | 50 | | mA |
| Power Supply Current—Peak | | 1 | | A ² |

- Notes:
1. Depends on installed sensors and operating environment
 2. Peak current at 3.6V.