DIRECT2CLOUD
I/O Gateway

Introduction

The Sent.io™ Direct2Cloud I/O gateway is perfect for stand-alone IoT monitoring in a variety of applications including building management, oil and gas, water/wastewater and much more.

Sent.io™ has multiple power options to fit any application. When powered from a field replaceable battery pack, it is a truly wireless IoT gateway that can sample multiple I/O or sensors every 5 minutes and report to the cloud every 8 hours or when an alert condition exists. When powered from external DC (8-24V), Sent.io™ continuously samples all I/O to check for alert conditions, providing near instant alert notifications. Samples are recorded and reported to the cloud every 5 minutes. If uptime reliability is a primary concern, Sent.io™ can be powered from our Whisker.io® MicroUPS™ which provides up to 48 hours of battery backed run time. When Sent.io™ is powered from the MicroUPS™, it can send text/email notifications when main power is lost and restored.

Sent.io™ can be configured with a variety of I/O options including analog and digital inputs and outputs, Modbus RTU (RS-485), and our entire line of 2Smart™ digital sensors which currently include digital temperature, temperature/humidity/pressure, and 3-5M tank level sensors.

Any 3rd party Modbus enabled product can be brought into the Whisker.io® cloud platform using Sent.io™ as a gateway, allowing your customers to control their building and industrial automation systems from anywhere in the world using any mobile device.

Sent.io™ 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.
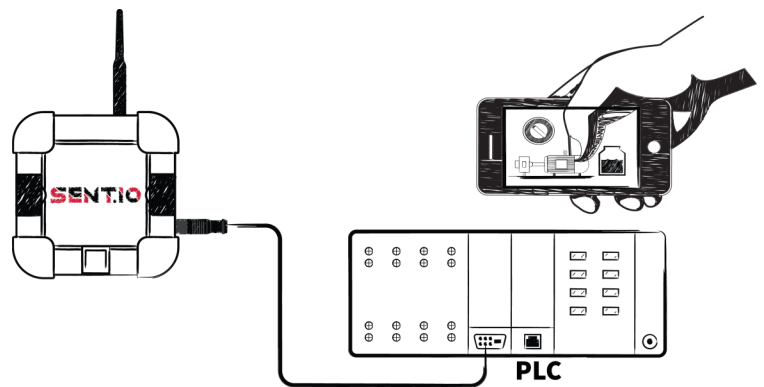
Part Numbers

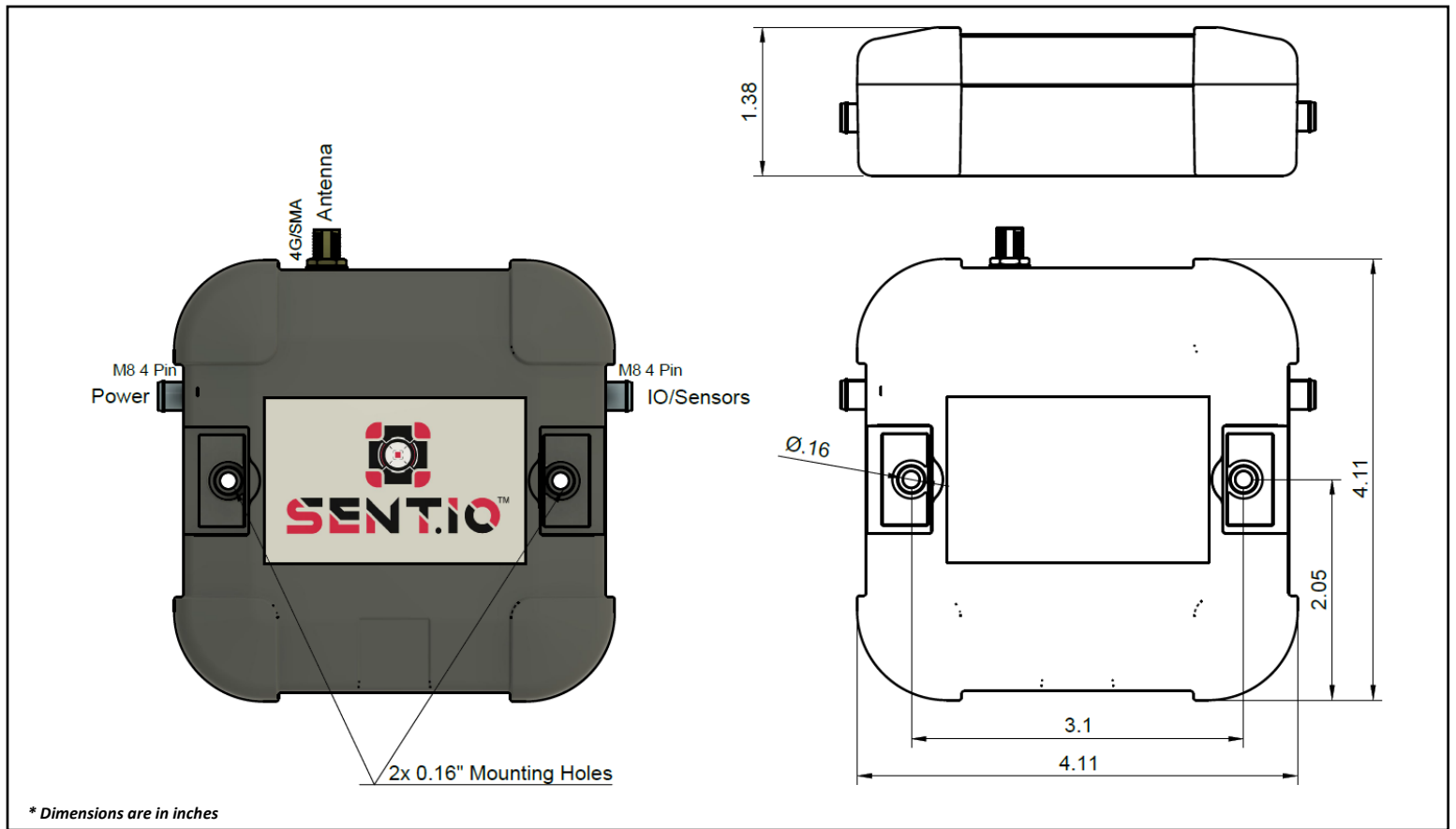| P/N	Description
SIO-AT-EX-SE-SI22NNNN-XR	2Smart™ sensor interface
SIO-AT-EX-SE-SIMMNNNN-XR	Modbus RTU—RS-485
SIO-AT-EX-SE-SI44NNNN-XR	2x 4-20mA analog inputs
SIO-AT-EX-SE-SI55NNNN-XR	2x 0-5V analog inputs
SIO-AT-EX-SE-SINNNNNN-XR	Ambient Temperature Sensor

Features

- Multiple I/O configurations—analog, digital, Modbus, 2SMart
- Flexible power options—battery, DC, UPS
- Multiple I/O configurations—analog, digital, Modbus RTU, 2Smart Interface
- Direct2Cloud air-gapped communications
- IP67 rated outdoor enclosure (DIN Rail, wall/pole mount)
- Simple to install, easy to use
- 24/7 remote monitoring and control from anywhere in the world
- Enterprise grade solution—use on phone, tablet, or PC
- Smart text/email alerts with user defined thresholds
- Custom dashboards and user-interfaces
- Direct2Cloud™ - air gapped communications, AT&T 4G

Sample Application

This simple application shows how any PLC can be remotely monitored and controlled from anywhere in the world using a mobile phone, tablet or laptop. This application is easy to setup—check out support.d6labs.com to learn more.

Mechanical Drawings

Dimensions are in inches

Key Specifications

Parameter	Minimum	Typical	Maximum	Units
Operating Temp. Range	-40		+85	°C
I/O	See individual Sent.io data sheet for specifications on configured I/O			
Power Supply (External DC Power Option)	8		32	VDC
Battery Life (Battery Power Option)	2	8	10	Years[1]
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.

Page - 2

1-844-365-8647   © Copyright 2021 Digital Six Laboratories, All Right Reserved

D6 Labs
Engineered IoT Solutions

www.d6labs.com
sales@d6labs.com