SENT.IO™

SIO-EX-MC-SE-SIMMNNNN-xx

Modbus RTU—RS-485

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™ Modbus RTU can read and write modbus registers in any Modbus RTU compatible device including PLCs, HMIs, sensors, actuators, and more. Its read rules are configured from the cloud and can be setup to read and push up to thirty-two process values. Modbus read rules are executed continuously to support real-time alert notification when there are problems. Process variables are pushed to the cloud every 5 minutes.

Sent.io™ Modbus RTU gives you an easy path to bring existing automation, SCADA, PLC or field I/O to the cloud so you customers and stakeholders can monitor and manage remotely using their mobile phone or PC.

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. Our proprietary Cat M1-MC™ technology allows Sent.io™ to seemlessly switch between AT&T, T-Mobile, and Verizon, ensuring reliability without the need for separate SIM cards.
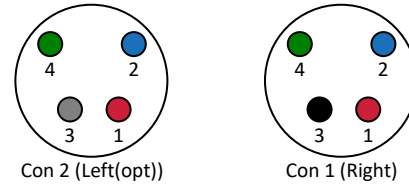
Ordering Information

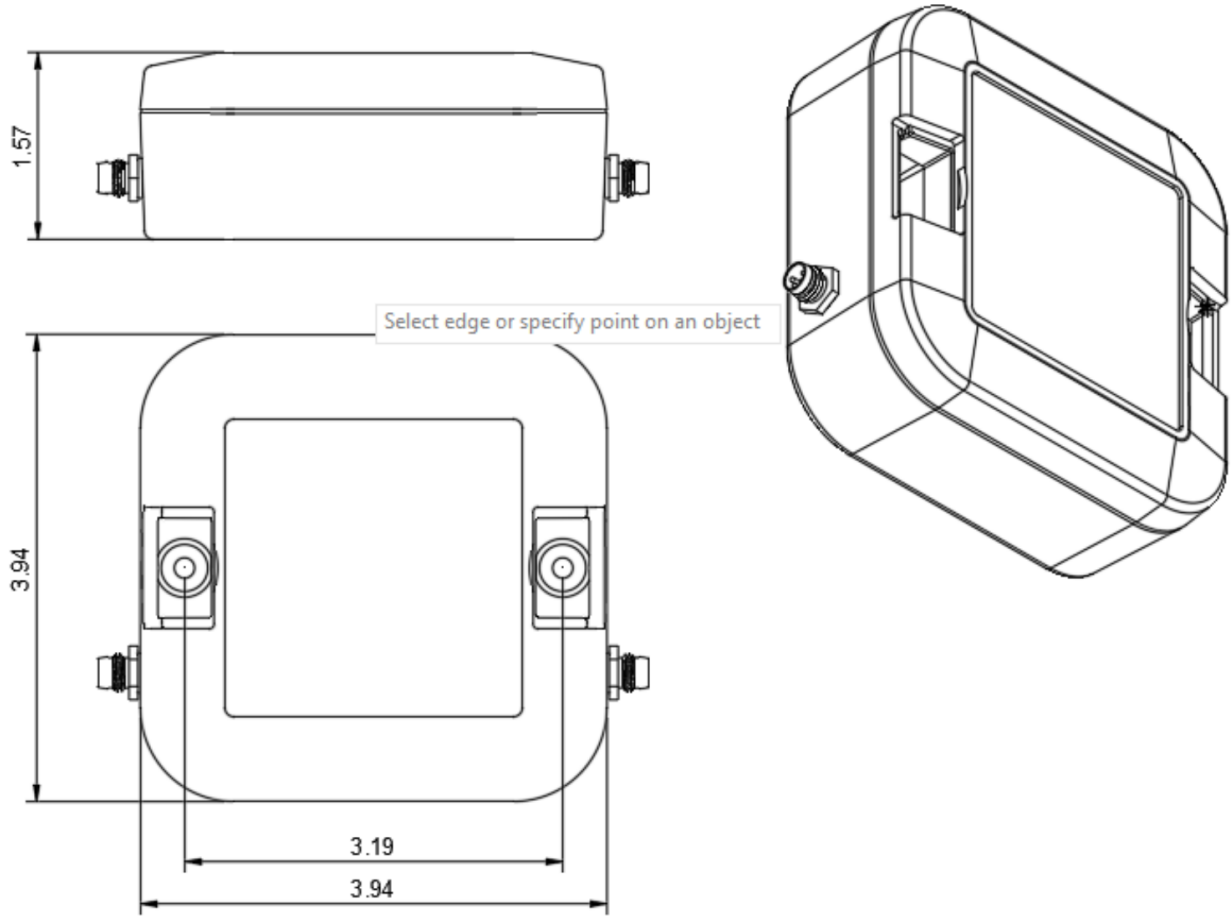| Part Number	Description
SIO-EX-MC-SE-SIMMNNNN-LR	Modbus RTU RS-485, Int Ant
SIO-EX-MC-SE-SIMMNNNN-XR	Modbus RTU RS-485, Ext Ant

Features

- Modbus RTU (RS-485)
- Thirty-two (32) read/write process variables
- Read-rules configured in the cloud, automatically downloaded to device
- CatM1-MC - Works with Verizon, AT&T, & T-Mobile
- 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

This Sent.io™ is configured with one (1) external channels:

Con 2 (Left(opt))   Con 1 (Right)

Connector	Pin	Function	Description
1	1	Vin	8-32 VDC
1	2	Channel 2	RS485-
1	3	Channel 3	RS485+
1	4	Ground	Circuit ground
2	1	Vin	8-32 VDC
2	2	Channel 1	Power Detection-active low
2	3	Not used	Not used
2	4	Ground	Circuit ground

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Engineered IoT Solutions

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Select edge or specify point on an object

* Dimensions are in inches

Product Attributes

Type	Description
Operating Temperature Range	-40 - 185°F
Analog Input Current Range	4-20 mA
Power Supply (External DC Power Option)	8-32 VDC
Power Supply Current--Average	50mA (typical)
Power Supply Current--Peak[2]	1A (typical)

1) Depends on installed sensors and operating environment
2) Peak current at 3.6V

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