Swift Sensors

Swift Sensors Gateway 1012

Part Number: SG3-1012

Overview

The Swift Sensors Gateway 1012 connects with all Series 3 and Series 2 Swift Sensors within range and securely transmits sensor data to the Swift Sensors Cloud through either **Wi-Fi, Ethernet, or Cellular (Swift Sensors Cellular Network Module Required)**. The Swift Sensors Gateway can be powered with 110/220V universal power supply or with active PoE (IEEE 802.3af and 802.3at). The gateway can be mounted on a wall or secured on a pipe or pole with zip ties. An optional stand is available for placing the gateway on table or in a cabinet.

Simple, Plug-and-Play Deployment

Place the small battery-powered sensor in the location or on the equipment you need to monitor. The Swift Sensors Gateway instantly identifies the sensor and establishes secure communication. No wires to connect. No software to Install. Sensors are powered with 2 AAA lithium polymer batteries with an average lifespan of 6 - 8 years. Sensors can be powered on or put into sleep mode by pressing the center of the sensor. A green LED in the sensor blinks when the sensor powers on, turns solid when transitioning to sleep mode, and will blink when the "Find my Sensor" command is sent from the Console. All sensors send encrypted data to the gateway.

Secure, Scalable, Cloud Architecture

The system is 100% cloud-managed. The gateway securely transmits sensor data to the Swift Sensors Cloud using 256-bit AES encryption. The system is scalable from a single sensor, one site application to multi-site enterprises with thousands of sensors.

Real-time Monitoring and Analytics with Actionable Data

Swift Sensors Console allows real-time asset monitoring and sophisticated analysis from anywhere – on a computer, tablet, or smartphone. Data analytics provide operational insights and deep visibility. SMS text, email, and phone call notifications can be set based on customizable threshold values and complex rules by individual sensors or sensor groups.

Applications

- ✓ Manufacturing and Production
- ✓ Facility Monitoring
- ✓ Museums
- ✓ Datacenters
- ✓ Warehouses
- ✓ Greenhouses
- ✓ Restaurants and Food Service
- ✓ Cold Chain Monitoring
- ✓ Transportation
- ✓ Building Management

Operational Specifications:

Power Supply	110VAC/220VAC to 12VDC, 1.5A 18W universal threaded
Operating Voltage	12 - 24VDC (from DC Jack)
PoE Support	48Vdc +/- 10% (Active 802.3af/at+ Protocols Only)
Current Consumption	220mA @ 12VDC (2.64W) Nominal, 300mA @ 12VDC (Peak), 65mA (PoE Avg)
CPU Operating Temp.	-40°C to +85°C (-67°F to +185°F)
Operating Env. Temp.	-20°C to +50°C (-4°F to +122°F)
Use Environment	Indoor Use Only / Optional IP67 Enclosure Available
Relative Humidity	20% to 90% RH, non-condensing
Wi-Fi Connectivity	2.4 GHz and 5.0 GHz IEEE 802.11ac wireless
Ethernet Connectivity	100/300/1000MBPS (GbE)
Cellular Connectivity	Optional with Swift Sensors USB Cellular Network Module
USB	2 USB 3.0 ports for supported devices only
Encryption	256-Bit AES Encryption
Time-Keeping	RTC with CR1220 Battery
Front Panel LEDs (Internet)*	Green - Connected, Yellow - Local Connection, No Internet Red - Not Connected, White - Power On Sequence
Front Panel LEDs (Setup Wi-Fi)*	Blinking - Transferring to AP mode Solid Blue - AP mode for Wifi Configuration
Sensor Types Supported	Up to 150 Swift Sensors Series 3 / Up to 30 Series 2
Weight	170.1g (6oz)
Dimensions	104 mm X 120mm X 32.5mm (4.1in X 4.7in X 1.3in)
Enclosure Material	ABS PA-765+
900Mhz Antenna	900Mhz Whip, Tilt RF Antenna, RP-SMA Male Mount 19.5cm x 1.3cm (Height x Diameter at connector)
Certifications FC Industry Canada CE RoHS	FCC ID: X8WBT840F, 2ABCB-RPI4B, TARTS: ZTL-RFSC1 IC ID: 4100A-BT840F, 20953-RPI4B, TARTS: 9794A-RFSC1 CE: 2014/35/EU, 2014/53/EU, 2014/30/EU

SwiftSensors

Operational Specifications Cont.:

EMC Compliance	FCC Part 15 Class B
Flammability Rating	UL94-0V
Warranty	2-years

Swift Sensors Gateway

The Swift Sensors Gateway collects encrypted data from sensors located within the specified communication range (< 90m/300ft) and then transmits the sensor data to the Swift Sensors Cloud through either Ethernet, Wi-Fi, or cellular. The gateway auto-detects all sensors within range and will immediately establish secure communication without any user configuration or setup. Each gateway can support up to 150 Series 3 sensors.

Swift Sensors Console

All sensor data is logged and stored in the Swift Sensors Cloud. The Swift Sensors Console is configured to monitor and track all sensor data in the cloud. Multiple thresholds and alerts can be set separately for each sensor to supply notification via SMS text, email, or phone call. The console can be viewed in a web browser on a computer, tablet, or smartphone.

No programming is required to configure the console. An API to the Swift Sensors Platform allows integration with other data sources and 3rd-party data analytics tools.

*Front panel LEDs Internet connection: Green = Connected. Yellow = Connected Local, no Internet.
Red = No Connection. During Power Up the LED is White. Wi-Fi setup: Blinking Blue = Transferring to AP mode. Solid Blue = AP mode for configuring WiFi.

The gateway is easily put in AP mode (WiFi configuration) by pressing and holding the button in the center of the gateway for 1 second.

Each gateway can communicate with up to 150 Series 3 sensors.