



Swift Sensors Cellular Network Modem 01

Part Number: SG3-CNM-01

Overview

Swift Sensors Cellular Network Module is ideal for supporting locations where cellular connectivity is required. The module connects to the gateway via USB and can be easily mounted next to the gateway. It is the ideal option for connecting remote locations and small offices that have no IT support or local area network. The module can also function as a redundant backup to the Wi-Fi/Ethernet connection. A monthly or annual cellular data plan is required to use the Cellular Network Module.

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:	
Network Performance	LTE 4G
Connectors and Cables	1 USB Cable for attachment Swift Sensors Gateway 1 Antenna Connector 1 Micro Carrier SIM (internal)
Dimensions	Module: 11.5cm x 7cm x 2.1cm (4.5in. x 2.75in. x 0.9in.) Antenna length: 19.3cm (7.6in.) USB cable length 86.4cm (34in.)
Power Draw	5VDC: 25mA sleep, 38mA idle, 510mA MAX power
Environmental Specifications:	
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Relative Humidity	20% to 90% RH, non-condensing
Certifications:	
EMC Compliance	FCC Part 15 Class B
Radio Compliance	LAT3: FCC Part 22, 24, 27
UL	Uses Multitech Dragonfly Module UL/cUL 60950-1 2nd ED certification
Network	PTCRB
Carrier	AT&T, T-Mobile
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.