

# SynapSense® 900 MHz Gateway

# PANDUIT®

## SPECIFICATION SHEET

## specifications

The 900 MHz gateway shall be a wireless network-to-Ethernet bridge designed to collect and consolidate data captured from wireless sensors. Data shall be stored locally up to 16,000 messages in case of disconnection from network. The gateway shall transmit data to an online or premises based configuration management / database system. The configuration management / database system shall allow review and export of the information as a data sheet or graph. The system shall alert the user(s) when a measurement exceeds a pre-defined set point. Notifications shall be configured based on time of day parameters.



## key features and benefits

<b>Intelligent hardware:</b>	Collects, consolidates, and relays data from and manages the SynapSense® 900 MHz wireless network
<b>900 MHz frequency:</b>	Provides 250-300 ft wireless range non-line of sight/indoors for greater penetration through walls, ceilings and floors to help improve operational efficiency
<b>PoE powered:</b>	Avoids complex cabling installations, minimizing time, labor and material costs
<b>Data retention:</b>	Designed to buffer, retain and resend data when the Ethernet connection is lost, thereby increasing the resiliency of the network by avoiding loss of critical data
<b>Data acknowledgment:</b>	Sends messages to confirm connection between gateway and sensors to ensure data integrity
<b>Single IP address scalability:</b>	Allows interconnect ability of up to 100 sensors on a single wireless network gateway through one single IP address, reducing the need for separate IP ports, IP capital costs and management overhead
<b>Status LEDs:</b>	Provide information on hardware, LAN, and WSN status for quick visual diagnostics
<b>Flexible installation:</b>	Can be mounted with cable ties or optional gateway mounting kit for convenience

## applications

The SynapSense® 900 MHz Gateway is part of the Panduit® SynapSense® 900 MHz Wireless Monitoring System which provides a low-cost, easy-to-deploy solution to gather, communicate, and visualize data within the facility to improve reliability, product quality, operational efficiency and energy optimization. The gateway collects data from wireless sensors via a 900 MHz wireless network, processes raw data and delivers it via Ethernet to the server.

The system allows for complete configuration and customization at a sensor, local network, or client-wide level, making it ideal for applications such as: energy management, predictive maintenance, food safety, and environmental monitoring.

### 900 MHz Gateway

**PoE gateway with power cords:** IOT-9GWPOE

### 900 MHz Kits

**Monitoring kit (20 temperature sensors, 1 PoE gateway, 1 mounting kit, software, 1st year support):** IOT-9EMON

**Gateway mounting kit:** IOT-9MT

### 900 MHz Sensors

**AC current meter, 20 Amp:** IOT-9CM20

**AC current meter, 150 Amp:** IOT-9CM150

**DC current meter, 20 mA:** IOT-9CM20M

**Dry contact sensor:** IOT-9DC

**High temperature sensor:** IOT-9CHT

**Open/close sensor:** IOT-9OC

**Open/close sensor - 10 pack:** IOT-9OC-X

**Pressure sensor, 300 PSIG:** IOT-9PS300

**Push button sensor:** IOT-9PB

**Pulse counter, 1-input:** IOT-9PC01

**Pulse counter, 4-input:** IOT-9PC04

**Temperature/humidity sensor with 3 foot probe:** IOT-9CTHL03

**Temperature/humidity sensor with 3 foot probe - 10 pack:** IOT-9CTHL03-X

**Temperature sensor:** IOT-9CT

**Temperature sensor - 10 pack:** IOT-9CT-X

**Temperature sensor with 3 foot probe:** IOT-9CTL03

**Temperature sensor with 3 foot probe - 10 pack:** IOT-9CTL03-X

**Vibration sensor:** IOT-9CVM

**Vibration sensor - 10 pack:** IOT-9CVM-X

**Voltage meter, 0-5 VDC:** IOT-9VM5

### Software

**Enterprise software license (250 sensor):** IOT-9SW250

**Enterprise software license (2000 sensor):** IOT-9SW2K

# SynapSense® 900 MHz Gateway

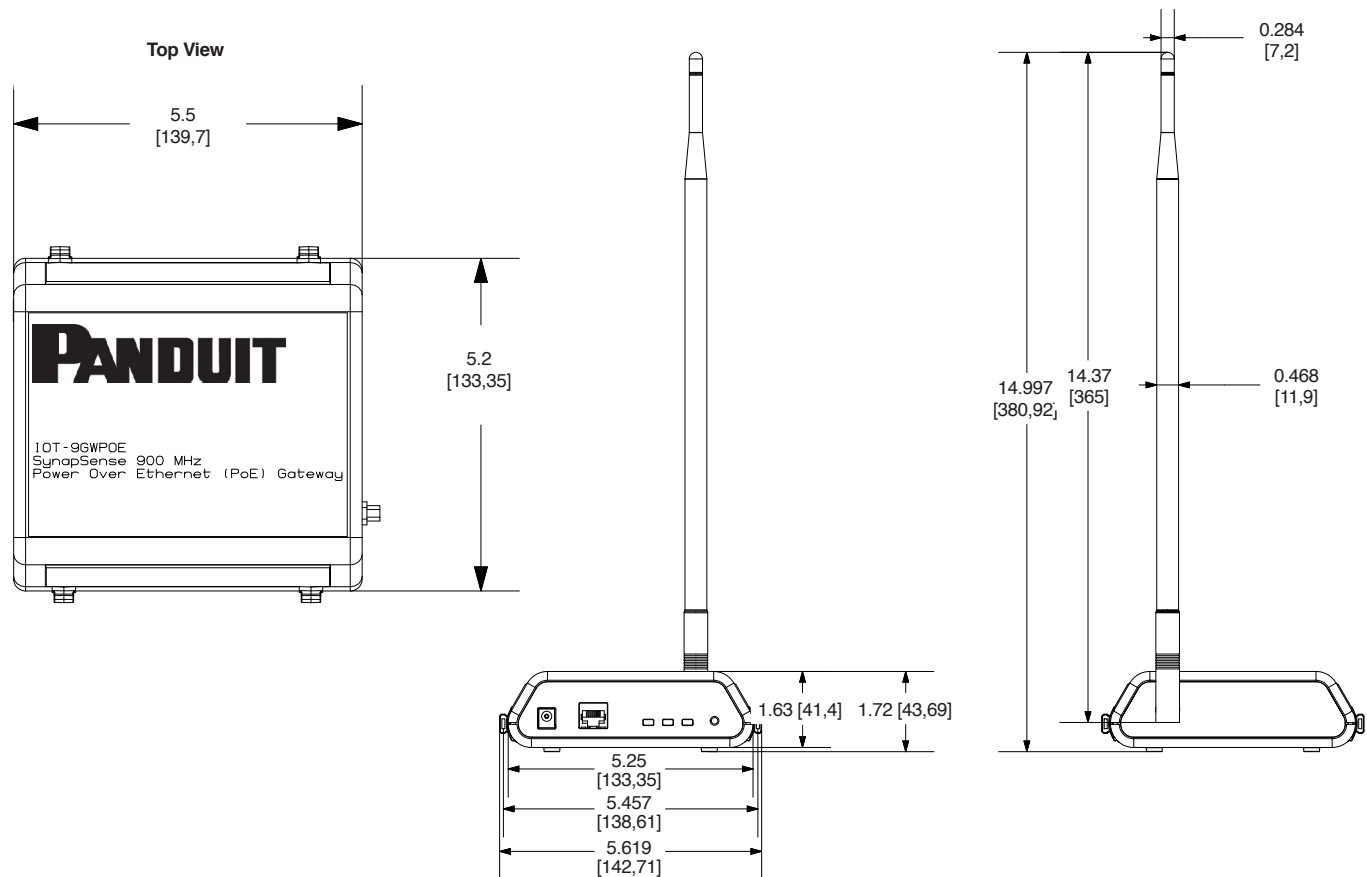
## Technical Information

<b>Dimensions</b>	5.5" L x 5.25" W x 1.63" H (139mm L x 133.35mm W x 41.402mm H)
<b>Certifications</b>	FCC and IC
<b>Housing</b>	ABS Plastic
<b>Memory</b>	Up to 16,000 messages
<b>Internet Protocol</b>	Supports IPv4 and IPv6
<b>Maximum Weight</b>	0.43Kg (15 oz.)
<b>Power Requirements</b>	5.5 V AC adaptor and 5.5 V PoE adaptor
<b>Environmental</b>	-10 to +70 °C (14 to 158 °F)
<b>IEEE Standard Compliance</b>	IEEE 802.3-2002
<b>RF Data Range</b>	Up to 300 feet (91 m), non-line-of-sight*
<b>Browser</b>	Windows Internet Explorer** 9.x or higher, Mozilla Firefox** 11.x or higher, or Google Chrome 17** or higher
<b>Ethernet</b>	10baseT – 100baseT

\* Actual range may vary depending on environment.

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## Dimensions



Dimensions are in inches. [Dimensions in brackets are metric.]

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