Remote Monitoring for Business

ETHERNET

ALTA EGW4 Gateway

General Description

Monnit's ALTA Ethernet EGW4 Gateways allow Monnit Wireless Sensors to communicate with the iMonnit® Online Wireless Sensor Monitoring and Notification System without the need for a PC. Simply provide power and plug the gateway into an open Ethernet port with an Internet connection. It will automatically connect with our online servers, providing the perfect solution for commercial locations where there is an Internet connection.

The EGW4 Gateway allows Monnit Wireless Sensors to communicate with the iMonnit system via Ethernet transmission. Ethernet communication is the primary method of transmission. ALTA Ethernet Gateways are advanced all wireless M2M gateways that enable fast time-to-market solutions for a wide range of M2M and partner applications. Monnit's EGW4 Gateway is specifically designed to respond to the increasing market need for global technology that accommodates a variety of vertical M2M application segments and remote wireless sensor management solutions.
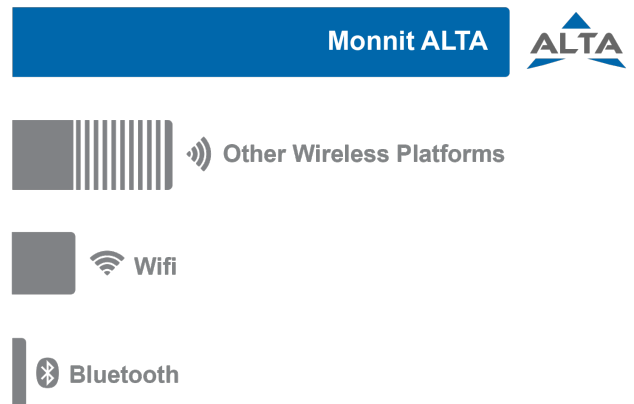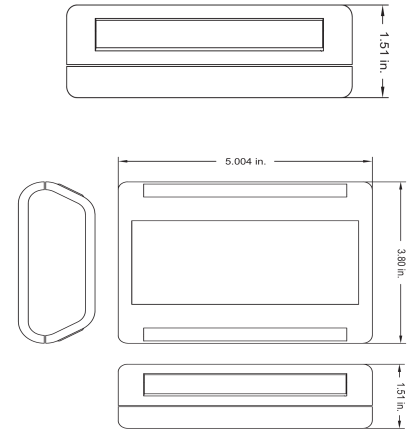
Example Applications

- Remote Location Monitoring
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

ALTA EGW4 Gateway Features

- Wireless range of 1,200+ feet through 12+ walls *
- Frequency Hopping Spread Spectrum (FHSS)
- Best in class interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 30,000 sensor message memory
- Over the air updates (future proof)
- True plug & play, no hassles for Internet configuration set-up
- No PC required for operation
- Low-cost cellular service packages
- Local status LEDs with transmission and online status indicators
- AC power supply
  - * Actual range may vary depending on environment.

Wireless Range Comparison

Monnit ALTA

Other Wireless Platforms

Wifi

Bluetooth

ALTA EGW4 Gateway Specifications

Models	
Ethernet	MNG2-9-EGW-CCE
Ethernet + POE	MNG2-9-EGW-CCE-POE
Ethernet	
Hardware	10/100 Ethernet Controller
IEEE Standard Compliance	802.3-2002
Operation	Full- and Half-Duplex
Cross-Over Correction	Automatic MDI/MDI-X
Protocols Supported	DHCP, DNS, NTP, UDP, TCP, SNMP, Modbus TCP
Cable Connector	RJ45
Device Memory	Typically, 30,000 sensor messages; varies based on sensor type. (Sensor messages will be stored in the event of Internet outage and transferred when connection is restored)
Power	
Input Power	5.0 VDC @ 1A
Ethernet + POE variant	802.3AF Class 1 Compliant
Mechanical	
LEDs	Connectivity, Server, Network Status
Enclosure	ABS
Dimensions	5.004 x 3.8 x 1.51 in.
Weight	7 ounces
Environmental	
Operating Temperature	-20 to +60°C (-4 to 140°F)
Storage Temperature	-40 to +85°C (-40 to 185°F)
Wireless	
Transmit Power	25 mW (900 MHz), 17 mW (868 MHz), 6.3 mW (433 MHz)
Antenna Types	Connector: RP-SMA Gain: 2.5 dBi (433 MHz Product) 3.0 dBi (868 MHz, 400 MHz Product)
Wireless Range	1,200+ ft. non-line-of-sight *
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)
Certifications	900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 60950/62368-1

* Actual range may vary depending on environment.