



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.

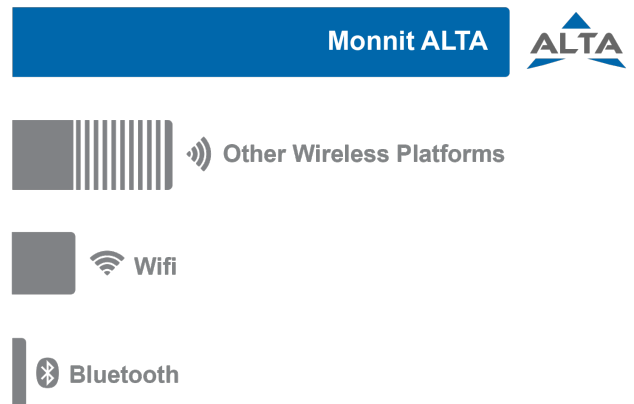
Example Applications

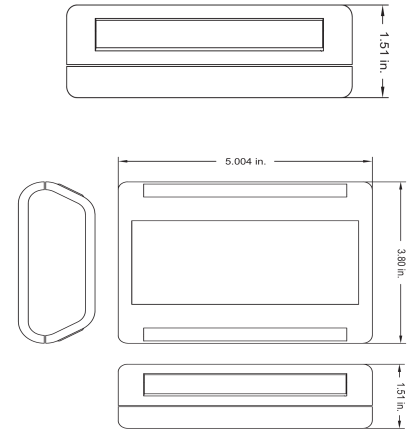
- Remote Location Monitoring
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

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





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

| | |
|------------|------------------------|
| 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.

Commercial Grade Cellular Gateways:

Monnit commercial grade cellular gateways are designed for applications in ordinary environments (normal room temperature, humidity and atmospheric pressure). Do not use these gateways under the following conditions as these factors can deteriorate the product characteristics and cause failures and burn-out.

- Corrosive gas or deoxidizing gas – chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc.).
- Volatile or flammable gas.
- Dusty conditions.
- Under low or high pressure.
- Wet or excessively humid locations.
- Places with salt water, oils chemical liquids or organic solvents.
- Where there are excessively strong vibrations.
- Other places where similar hazardous conditions exist.

Use these product within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality.



Monnit Corporation

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