

# **Remote Monitoring for Business**



# **ALTA EGW4 Gateway**

#### **General Description**

The ALTA® by Monnit Ethernet Gateway 4 (EGW4) allows Monnit Wireless Sensors to communicate with the iMonnit® Online Wireless Sensor Monitoring and Notification System without needing 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 Internet-enabled commercial locations.

ALTA Ethernet Gateways are advanced IoT gateways that enable fast time-to-market solutions. Monnit's EGW4 is specifically designed to respond to the increasing market need for global technology that accommodates various vertical IoT application segments and remote wireless sensor management solutions.

# **Example Applications**

- Remote Location Monitoring
- · Facility Management
- · 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 <sup>1</sup>
- Frequency-Hopping Spread Spectrum (FHSS)
- · Best-in-class interference immunity
- Encrypt-RF<sup>®</sup> Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 30,000 sensor message memory <sup>2</sup>
- Over-the-air (OTA) updates (future-proof)
- True plug and play, no hassles for Internet configuration setup
- No PC required for operation
- Local-status LEDs with transmission and online status indicators
- AC power supply

# **Wireless Range Comparison**







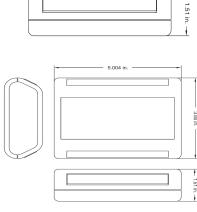




<sup>&</sup>lt;sup>1</sup> Actual range may vary depending on environment

<sup>&</sup>lt;sup>2</sup> Total messages in memory varies with sensor type (30K total messages for Temperature)





ALTA EGW4 Gateway Specifications		
Models		
Ethernet (Base Model)	MNG2-9-EGW-CCE, MNG2-8-EGW-CCE, MNG2-85-EGW-CCE, MNG2-4-EGW-CCE	
Data Unlock Option	<base model=""/> -UNLK	
PoE Power Option	<base model=""/> -POEA	
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 the connection is restored)	
Power		
Input Power	5.0 VDC @ 1A	
Mechanical		
LEDs	Connectivity, Server, Network Status	
Enclosure	ABS	
Dimensions	5.004 x 3.8 x 1.51 in.	
Weight	7 ounces	
Environmental		
Operating Temperature	ature   -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, 865 MHz), 6.3 mW (433 MHz)	
Antenna Types	Connector: RP-SMA	
Wireless Range	1,200+ ft. non-line-of-sight <sup>1</sup>	
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Product Certifications  FC CE Industry Canada	Safety: IEC 62368-1 EMC: IEC 55024, IEC 55032, IEC 301489-1, -3, -A, FCC 47 CFR Part 15, subpart B, ICES - 001 Issue 6 RF: 900 MHz product includes model FCC ID: ZTL-G2SC1 / IC: 9794A-G2SC1; 868 MHz product includes Module G2SC1 (IEC 300 220-1, -2); 433 MHz product includes Module G2SC2 (IEC 300 220-1,-2)	

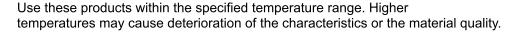
<sup>&</sup>lt;sup>1</sup> Actual range may vary depending on environment.

Optional PoE Splitter Accessory Technical / Device Specifications		
Power	Input: 44-57V	
Power	Output: 5V/2A Max	
	Input: RJ45 port	
Ports	Output: RJ45 cable	
	Output: DC barrel (5.5x2.1 mm)	
Transfer Rate	10/100 Mbps	
Compatible with the Following Power Source Equipment (PSE)	Midspan: 1/2(+), 3/6(-), Endspan: 4/5(+),7/8(-)	
Dimensions	80x28x21 mm (3.15x1.1x.83 inches)	
Cable Length	180 mm (6.6 inches)	
Compatible with the Following PoE Standards	IEEE 802.3 af IEEE 802.3 at	

#### **Commercial-Grade Gateways**

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

- Corrosive or deoxidizing gas chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxide 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





When using the gateway in a remote area or powering the gateway with an inverter, there is a possibility of unbalanced or noisy power (not true sinusoidal AC power). The EGW4 may experience random reboots and Ethernet link instability in these situations. If so, Monnit recommends using the AC/DC power supply for the device. Additionally, power line filters or higher-end power inverters may be required for stable operation.



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