



## Remote Monitoring for Business



ETHERNET

## ALTA® Ethernet Gateway 4K

### General Description

The ALTA® Ethernet Gateway supports up to 4,000 ALTA® Sensors, with the capacity for 1,000 to communicate simultaneously with the iMonnit® IoT 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 4K are advanced IoT gateways that enable fast time-to-market solutions. This gateway 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 and Campus Management
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

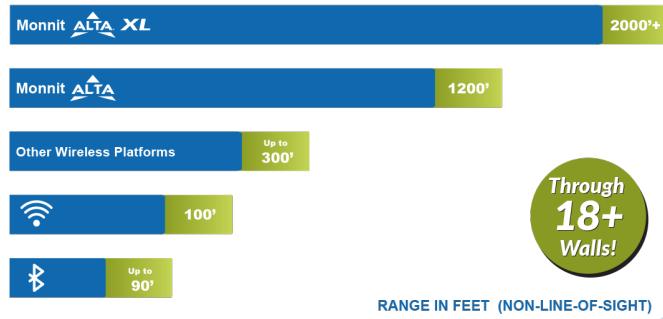
### ALTA Ethernet Gateway 4K Features

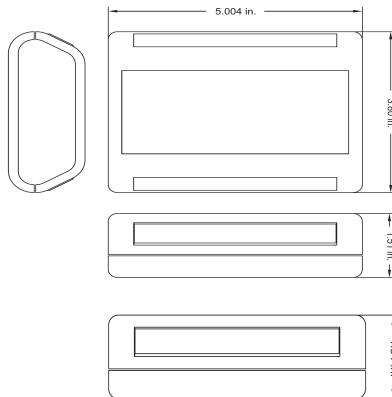
- Wireless range of 1,200+ feet through 12+ walls <sup>1</sup>
- Frequency-Hopping Spread Spectrum (FHSS)
- Best-in-class interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 30,000 sensor message memory <sup>2</sup>
- Supports networks of up to 4,000 sensors
- Capable of managing 1,000 sensors per day
- 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

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

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

### Wireless Range Comparison





## ALTA® Ethernet Gateway 4K Specifications

### Models

Ethernet (Base Model)	MNG2-9-E4K-CCE, MNG2-8-E4K-CCE, MNG2-85-E4K-CCE, MNG2-4-E4K-CCE
Data Unlock Option	<Base Model>-UNLK
PoE Power Option	<Base Model>-POEA

### Features

Sensors Network List Size	Up to 4000 sensors
Sensors Simultaneously Active	Up to 1000 sensors per day (in a 24 hour period)
Device Memory	Typically, 30,000 sensor messages; varies based on sensor type. (Sensor messages will be stored in the event of an Internet outage and transferred when the connection is restored.)

### 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
Cable Connector	RJ45

### Power

Input Power	5.0 VDC @ 1A
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### Mechanical

LEDs	Connectivity, Server, Network Status
Material	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, 865 MHz), 6.3 mW (433 MHz)
Antenna Types	Connector: RP-SMA Gain: 3.0 dBi (900 MHz, 868 MHz, 865 MHz) Gain: 2.5 dBi (433 MHz)
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



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 G2SC-433 (IEC 300 220-1, -2)

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