



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

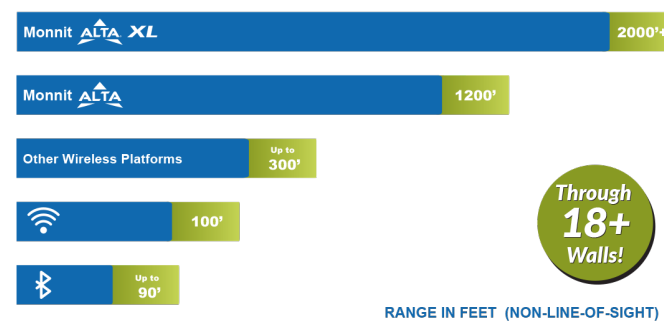
ALTA Ethernet Gateway 4K Features

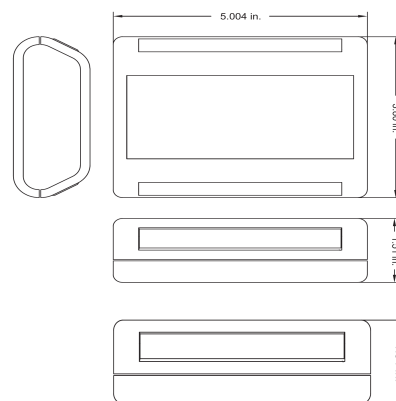
- Wireless range of 1,200+ feet through 12+ walls ¹
- Frequency-Hopping Spread Spectrum (FHSS)
- Best-in-class interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 30,000 sensor message memory ²
- Supports networks of up to 4,000 sensors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

¹ Actual range may vary depending on environment

² 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 ¹
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)

¹ Actual range may vary depending on environment.