

ALTA 4G LTE INDUSTRIAL CELLULAR GATEWAY

General Description

The ALTA Industrial Cellular Gateway (CGW) is an advanced all wireless M2M gateway that enables fast time-to-market solutions for a wide range of M2M applications. The Industrial CGW allows your Monnit Wireless Sensors to communicate with the iMonnit™ Online Wireless Sensor Monitoring and Notification System via cellular transmission. This is the perfect solution for remote industrial locations where there is no existing internet connection and environmental conditions may be wet or dusty.

Monnit's industrial cellular gateways are specifically designed to respond to the increasing market need for global technology that accommodates multiple vertical M2M application segments and remote wireless sensor management solutions. Monnit cellular gateways are available in CDMA, 3G or 2G cellular technologies to support a variety of cellular carriers and global locations.

Example Applications

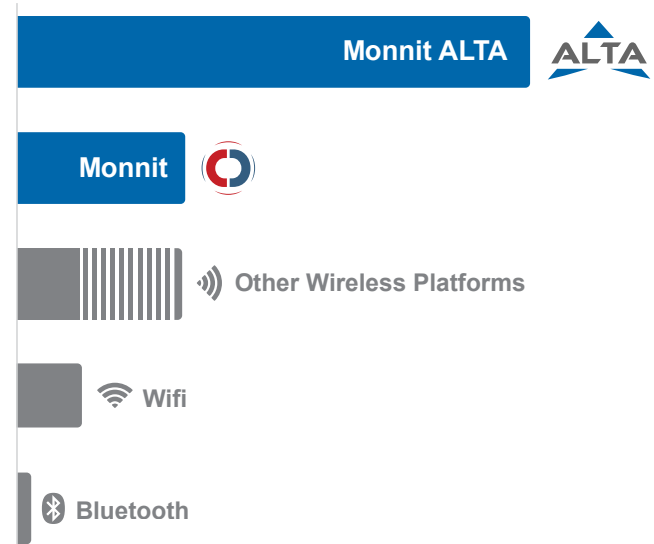
- Remote Location Monitoring
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

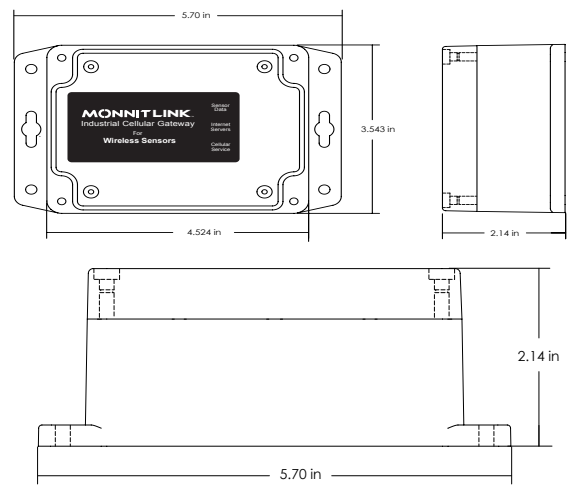
ALTA LTE Cellular Gateway Features

- Wireless range of 1,200+ feet through 12+ walls *
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Up to 50,000 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
- 24 hour battery backup in event of power outage

* Actual range may vary depending on environment.

Wireless Range Comparison





ALTA 4G LTE Industrial Cellular Gateway Specifications

Models

| | |
|----------|------------------|
| Cellular | MNG2-9-LTE-IN-ND |
|----------|------------------|

Cellular

| | |
|------------------------|---|
| Cellular Technology | LTE CAT-M1 LTE-only module for global use (AT&T, Telstra, Verizon) Cat M1/NB1 deployed bands 2, 3, 4, 5, 8, 12, 13, 20, 28 |
| SIM Card Compatibility | Micro-SIM (3FF) 15 mm x 12 mm x 0.76 mm |

Power

| | |
|----------------|---|
| Input Power | 5.0 VDC @ 1 A |
| Battery Backup | Battery Type: Rechargeable Lithium Polymer Battery Duration: Up to 24 hours Battery Cycle Life: 500 times Battery Safety: IEC62133 |

Mechanical

| | |
|---------------|--|
| LEDs | Connectivity, Server, Network Status |
| Device Memory | Up to 50,000 sensor messages (Sensor messages will be stored in the event of Internet outage and transferred when connection is restored) |

Enclosure

| | |
|------------|------------------------|
| Dimensions | 5.004 x 3.8 x 1.51 in. |
| Weight | 7 ounces |




Environmental

| | |
|-----------------------|----------------------------|
| Operating Temperature | +5 to +45°C (41 to 113°F) |
| Storage Temperature | -20 to +60°C (-4 to 140°F) |

ALTA Wireless

| | |
|-----------------------|--|
| Transmit Power (EIRP) | 50 mW (900 MHz), 25 mW (868 MHz), 10 mW (433 MHz) |
| Antenna Type | Connector: SMA Gain: 4.0 dBi |
| Wireless Range | 1,200+ ft. non-line-of-sight * |
| Security | Encrypt-RF® (256-bit key exchange and AES-128 CBC) |

Certifications

| | |
|---|---|
|    Industry Canada | Safety: IEC 60950-1 and IEC 62368-1; EMC: IEC 55024, IEC 55032, IEC 301489-1, -3, -A, -52, FCC 47 CFR Part 15, subpart B and ICES - 001 Issue 6; RF: 900 MHz product includes model FCC ID: ZTL-G2SC1 / IC: 9794A-G2SC1 and FCCID: XPY2AGQN4NNN / IC: 8595A-2AGQN4NNN; 868 MHz product includes Module G2SC1 (IEC 300 220-1, -2); 433 MHz product includes Module G2SC2 (IEC 300 220-1, -2) |
|---|---|

* Actual range may vary depending on environment.

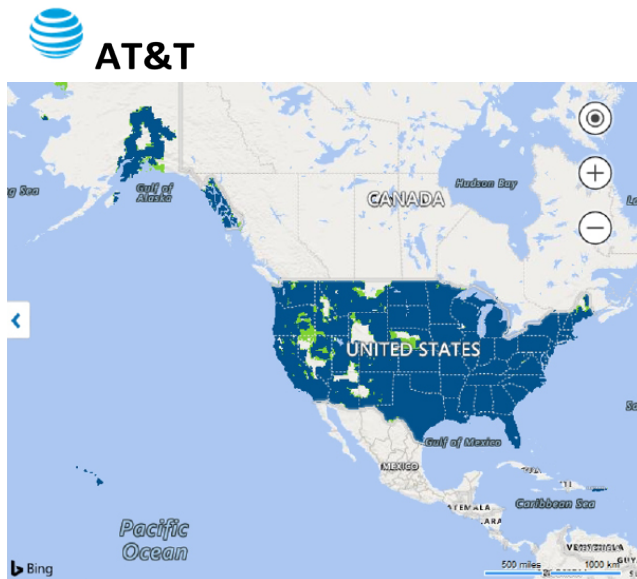
Commercial Grade Cellular Gateways:

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.

Coverage Maps:



This map shows an approximation of wireless data coverage in the United States, Puerto Rico, and U.S. Virgin Islands.

Current as of 04/12/2019



Current as of 04/12/2019

MONNIT®

For more information about our products or to place an order, please contact our sales department at 801-561-5555.

Visit us on the web at www.monnit.com.

Monnit Corporation
3400 South West Temple
South Salt Lake, UT 84115
801-561-5555
www.monnit.com