

## Cellular Gateways

### General Description

Don't have an existing network connection where you need it most? ALTA Cellular Gateways allow your Monnit Wireless Sensors to communicate with the iMonnit Online Wireless Sensor Monitoring and Notification System via cellular transmission. They are the perfect solution for remote locations, or where an existing internet connection is not an option.

The ALTA Cellular Gateways are based on the latest Dual-band CDMA or 3G wireless protocols and come integrated with Monnit's wireless access point network (WAN) for use with all Monnit wireless sensors.

The ALTA Cellular Gateway is an advanced all wireless M2M gateway that enables fast time-to-market solutions for a wide range of M2M and partner applications as well. Monnit's ALTA Cellular 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

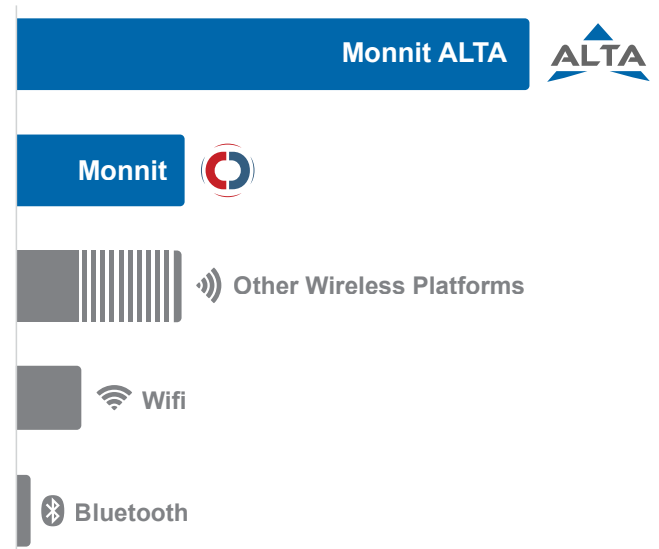
- Remote Location Monitoring
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

### ALTA Cellular Gateway Features

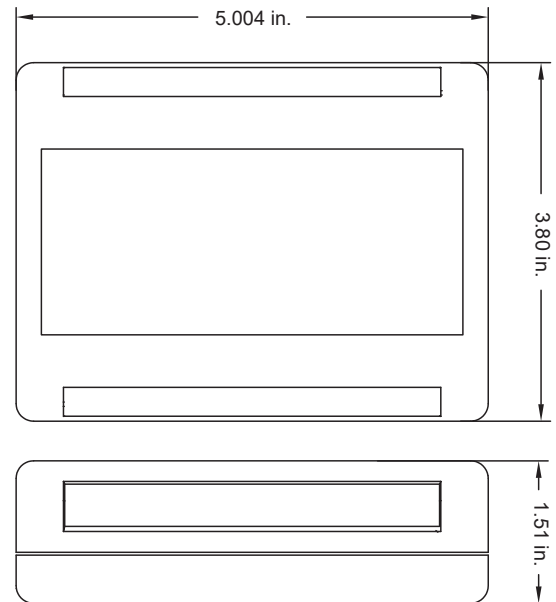
- Wireless range of 1,200+ feet through 12+ walls \*
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF<sup>®</sup> Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 50,000 sensor message memory
- Over the air updates (future proof)
- 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
- Optional 24 hour battery backup in event of power outage

\* Actual range may vary depending on environment.

### Wireless Range Comparison



## ALTA CDMA Cellular Gateways



### ALTA CDMA Cellular Gateway Specifications

#### Cellular

Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular
CDMA	Dual Band CDMA Frequency Range: 800 / 1900 MHz
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5

#### Power

Input Power	5.5 VDC @ 900 mA
Optional Battery Backup	Battery Type: Rechargeable Lithium Polymer
	Battery Duration: Up to 24 hours
	Battery Cycle Life: 500 times

#### Mechanical

LEDs	Cellular Status LED, Online Status LED, Sensor Network Status LED
Device Memory:	50,000 sensor messages (Sensor messages will be stored in the event of Internet outage and transferred when connection is restored)

#### Enclosure

Enclosure	ABS
Dimensions	5.004 x 3.8 x 1.51 in.
Weight	7 ounces



#### Environmental

Operating Temperature	-10 to +45°C (14 to 113°F)
Storage Temperature	-20 to +60°C (-4 to 140°F)

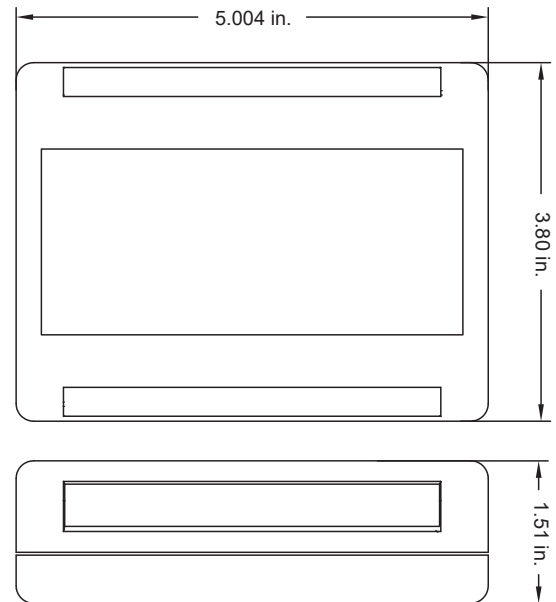
#### Wireless

Wireless Range	1,000+ ft. non-line-of-sight
Security	Encrypt-RF™ (256-bit key exchange and AES-128 CTR)

#### Certifications

	 	
Verizon	FCC: ZTL- G2SC1, FCC: MIVCNN0301	IC: 9794A-G2SC1 and IC: 4160a-CNN0301
Sprint / U.S. Cellular	FCC: ZTL- G2SC1, FCC: RI7CE910-DUAL	IC: 9794A-G2SC1 and IC: 5131A-CE910DUAL

## ALTA 3G Cellular Gateways



### ALTA 3G Cellular Gateway Specifications

#### Cellular

Cellular Technology	UMTS Frequency Range: 850 / 1700 / 1900 MHz
Antenna	Connector: RP-SMA Gain (dBi): 1.5
SIM Card Compatibility	Mini-SIM (2FF) 25 mm x 15 mm x 0.76 mm

#### Power

Input Power	5.5 VDC @ 2.5 A
Optional Battery Backup	Battery Type: Rechargeable Lithium Polymer
	Battery Duration: Up to 24 hours
	Battery Cycle Life: 500 times

#### Mechanical

LEDs	Cellular Status LED, Online Status LED, Sensor Network Status LED
Device Memory:	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

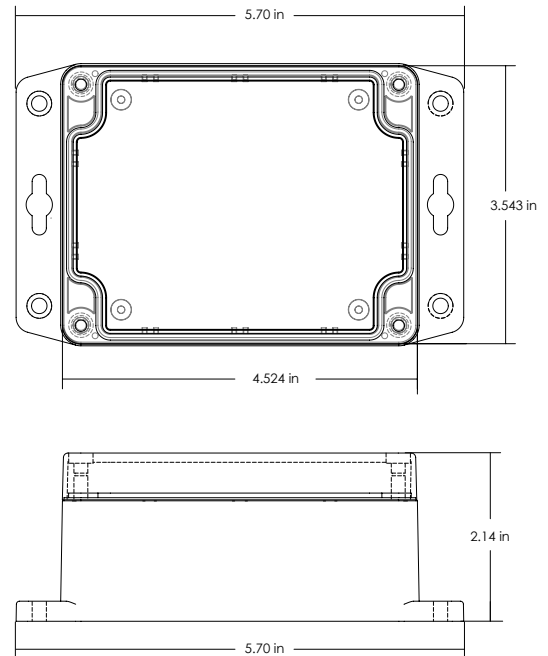
#### Environmental

Operating Temperature	-10 to +45°C (14 to 113°F)
Storage Temperature	-20 to +60°C (-4 to 140°F)

#### Wireless

Wireless Range	1,000+ ft. non-line-of-sight
Security	Encrypt-RF™ (256-bit key exchange and AES-128 CTR)
Certifications	 FCC: ZTL- G2SC1, FCC: RI7HE910      IC: 9794A-G2SC1 and IC: 5131A-HE910

## ALTA Industrial CDMA Cellular Gateways



### ALTA Industrial CDMA Cellular Gateway Specifications

#### Cellular

Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular
CDMA	Dual Band CDMA Frequency Range: 800 / 1900 MHz
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5

#### Power

Input Power	5.5 VDC @ 900 mA (rated for outdoor use)
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#### Mechanical

LEDs	Cellular Status LED, Online Status LED, Sensor Network Status LED
Device Memory:	50,000 sensor messages (messages will be stored in the event of Internet outage and transferred when connection is restored).
<b>Enclosure</b>	NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof Monnit's NEMA rated enclosures are constructed for both indoor or outdoor use and protect the enclosed circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose directed water).
Dimensions	5.70 x 3.543 x 2.14 in.
Weight	12 ounces

#### Environmental

Operating Temperature	-10 to +45°C (14 to 113°F)
Storage Temperature	-20 to +60°C (-4 to 140°F)

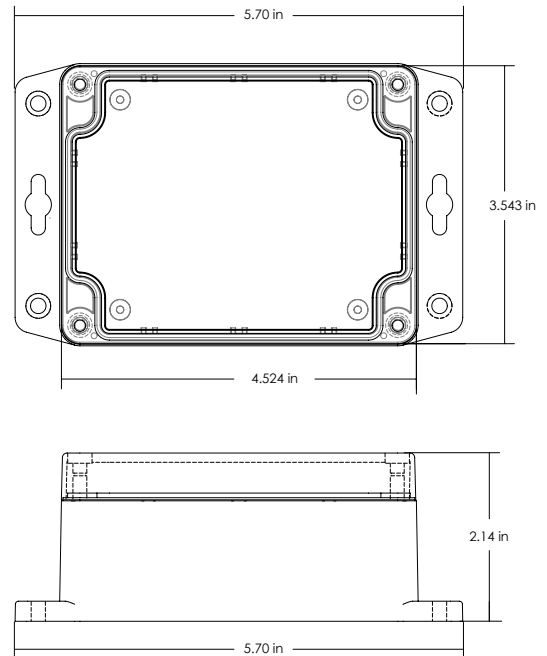
#### Wireless

Wireless Range	1,000+ ft. non-line-of-sight
Security	Encrypt-RF™ (256-bit key exchange and AES-128 CTR)

#### Certifications

Verizon	FCC: ZTL- G2SC1, FCC: MIVCNN0301	IC: 9794A-G2SC1 and IC: 4160a-CNN0301
Sprint / U.S. Cellular	FCC: ZTL- G2SC1, FCC: RI7CE910-DUAL	IC: 9794A-G2SC1 and IC: 5131A-CE910DUAL

## ALTA Industrial 3G Cellular Gateways



### ALTA Industrial 3G Cellular Gateway Specifications

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SIM Card Compatibility	Mini-SIM (2FF) 25 mm x 15 mm x 0.76 mm

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Certifications	 FCC: ZTL- G2SC1, FCC: RI7HE910   IC: 9794A-G2SC1 and IC: 5131A-HE910
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## 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.

## Industrial Grade Cellular Gateways - Type 1, 2, 4, 4X, 12 and 13 NEMA Rated Enclosure:

Monnit's Industrial cellular gateways are enclosed in reliable, weatherproof NEMA rated enclosures. Our NEMA rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose directed water).

- Safe from falling dirt.
- Protects against wind blown dust.
- Protects against rain, sleet, snow, splashing water, and hose directed water
- Increased level of corrosion resistance
- Will remain undamaged by ice formation on the enclosure



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](http://www.monnit.com).

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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