



The Leading Enterprise Internet of Things Solution

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.

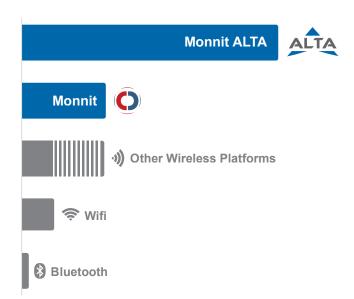
Example Applications

- · 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

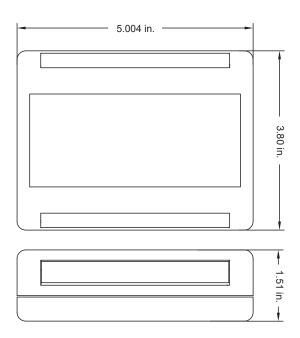
- Wireless range of 1,200+ feet through 12+ walls *
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 50,000 sensor message memory
- · Over the air updates (future proof)
- True plug & 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

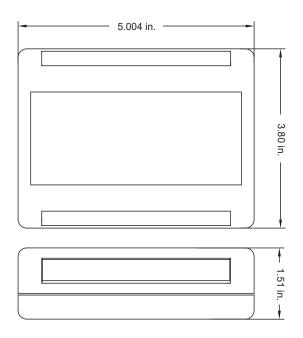




Cellular		
Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular	
CDMA	Dual Band CDMA Frequency Range: 800 / 1900 MHz	
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5	
Power		
Input Power	5.5 VDC @ 900 mA	
Optional Battery Backup	Battery Type: Rechargeable Lithium Polymer	
	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	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	F© Industry Canada	
	FCC: ZTL- G2SC1, FCC: MIVCNN0301 FCC: ZTL- G2SC1, FCC: RI7CE910-DUAL	IC: 9794A-G2SC1 and IC: 4160a-CNN0301 IC: 9794A-G2SC1 and IC: 5131A-CE910DUAL

ALTA 3G Cellular Gateways

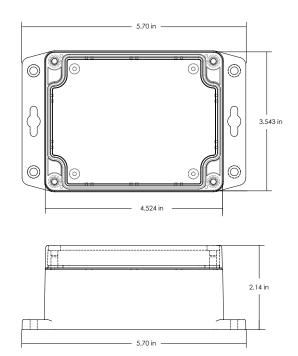




Cellular		
Cellular Technology	UMTS Frequency Range: 850 / 1700 / 1900 MHz	
Antenna	Connector: RP-SMA Gain (dBi): 1.5	
SIM Card Compatibility	Mini-SIM (2FF) 25 mm x 15 mm x 0.76 mm	
Power		
Input Power	5.5 VDC @ 2.5 A	
Optional Battery Backup	Battery Type: Rechargeable Lithium Polymer	
	Battery Duration: 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	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	F© Industry Canada	
	FCC: ZTL- G2SC1, FCC: RI7HE910 IC: 9794A-G2SC1 and IC: 5131A-HE910	

ALTA Industrial CDMA Cellular Gateways

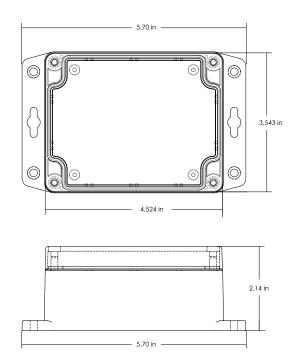




ALTA Industrial CDMA Cellul	ar Gateway Specifications	
Cellular		
Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular	
CDMA	Dual Band CDMA Frequency Range: 800 / 1900 MHz	
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5	
Power		
Input Power	5.5 VDC @ 900 mA (rated for outdoor use)	
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).	
Enclosure	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	FC Industry Canada	
	FCC: ZTL- G2SC1, FCC: MIVCNN0301 IC: 9794A-G2SC1 and IC: 4160a-CNN0301 IC: 9794A-G2SC1 and IC: 5131A-CE910DUAL	

ALTA Industrial 3G Cellular Gateways





ALTA Industrial 3G Cellu	lar 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 (rated for outdoor use)	
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).	
Enclosure	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).	
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