



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.

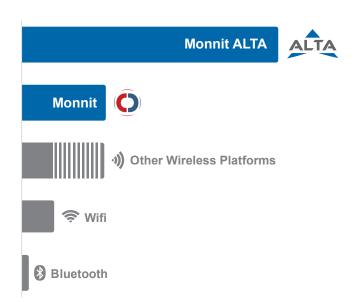
Example Applications

- · 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

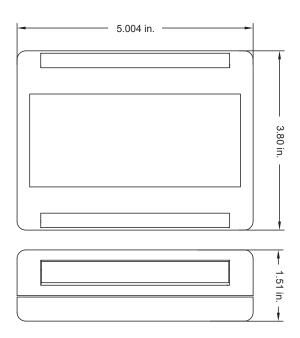
- Wireless range of 1,200+ feet through 12+ walls *
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 50,000 sensor message memory
- Over the air updates (future proof)
- True plug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

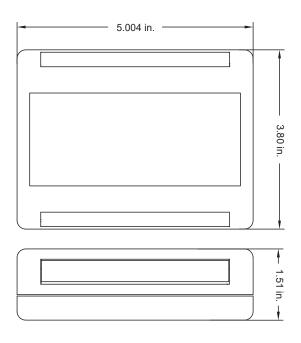




Cellular			
Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular		
CDMA	Dual Band CDMA		
	Frequency Range: 800 / 1900 MHz		
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5		
Power			
Input Power	5.5 VDC @ 900 mA		
Optional Battery Backup	Battery Type: Rechargeable Lithium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

ALTA 3G Cellular Gateways

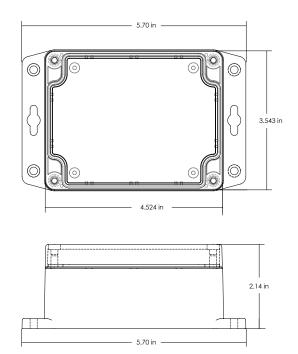




Cellular			
Cellular Technology	UMTS Frequency Range: 850 / 1700 / 1900 MHz		
Antenna	Connector: RP-SMA Gain (dBi): 1.5		
SIM Card Compatibility	Mini-SIM (2FF) 25 mm x 15 mm x 0.76 mm		
Power			
Input Power	5.5 VDC @ 2.5 A		
Optional Battery Backup	Battery Type: Rechargeable Lithium Polymer		
	Battery 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

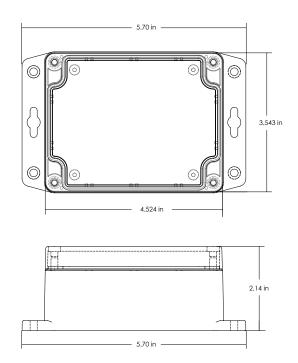




ALTA Industrial CDMA Cellular Gateway Specifications				
Cellular				
Carriers Supported	Verizon Wireless, Sprint Wireless, U.S. Cellular			
CDMA	Dual Band CDMA			
	Frequency Range: 800 / 1900 MHz			
Antenna	Articulating Dipole, Connector: SMA, Gain (dBi): 1.5			
Power				
Input Power	5.5 VDC @ 900 mA (rated for outdoor use)			
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 FCC: ZTL- G2SC1, FCC: RI7CE910-DUAL	IC: 9794A-G2SC1 and IC: 4160a-CNN0301 IC: 9794A-G2SC1 and IC: 5131A-CE910DUAL		

ALTA Industrial 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 (rated for outdoor use)		
Mechanical			
LEDs	Cellular Status LED, Online Status LED, Sensor Network Status LED		
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