



Cellular Gateway

General Description

BZ-COM's LTE Cellular Gateway allows you to control settings for your sensors without additional IT infrastructure. All you need is a power source to monitor your environment and equipment using industry-leading devices. The LTE Cellular Gateway will communicate with sensors and the Portal to deliver data alerting you to conditions in a surrounding area.

LTE Cellular Gateways operate using the latest 4G LTE CAT-M1/NB1 cellular technology. This advanced wireless IoT (Internet of Things) gateway will accommodate multiple vertical IoT application segments and wireless sensor management solutions. Your gateway is equipped with the 24-hour backup battery. Your Wireless Sensors will continue to communicate via cellular transmission in the event of a power outage. The LTE Cellular Gateway is ideal for applications without an existing wired internet connection or where existing infrastructure is dedicated to other resources.

Example Applications

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

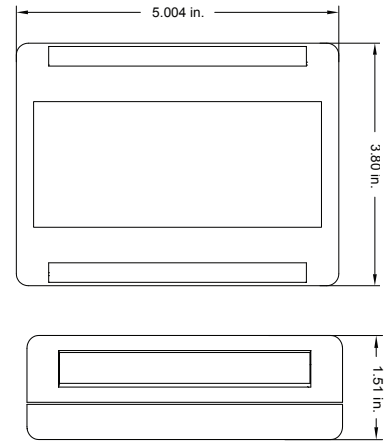
LTE Cellular Gateway Features

- 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





4G LTE Cellular Gateway Specifications

Models		
	Cellular	MNG2-9-LTE-CCE
Cellular		
	Cellular Technology	LTE CAT-M1 LTE-only module for global use (AT&T, T-Mobile USA, 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		
		ABS
	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		
		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)
	   Industry Canada	

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