

## Gen3+ Mobile Gateways

### General Description

Don't have an existing network connection where you need it most? Gen3 + Mobile Gateways allow your IoTMSS Wireless Sensors to communicate with the IoTMSS Online Wireless Sensor Monitoring and Notification System via Mobile transmission. They are the perfect solution for remote locations, or where an existing internet connection is not an option.

The Gen3 + Mobile Gateways are based on the latest Dual-band CDMA or 3G/4G wireless protocols and come integrated with IoTMSS's wireless access point network (WAN) for use with all IoTMSS wireless sensors.

The Gen3 + Mobile 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. IoTMSS's Mobile 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

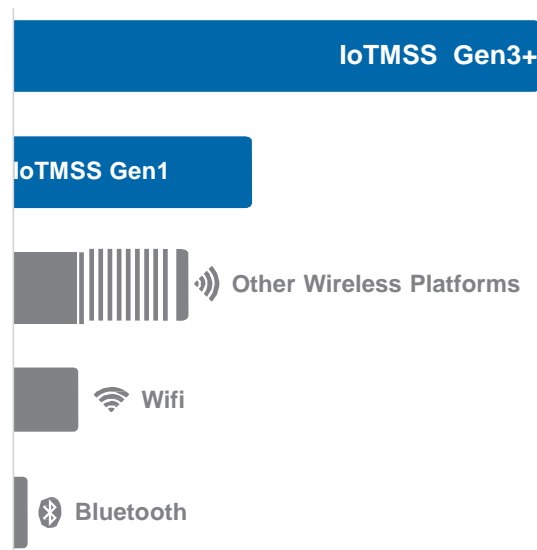
- Remote Location Monitoring
- Shipping and Transportation
- Agricultural Monitoring
- Vacant Property Management
- Vacation Home Property Management
- Construction Site Monitoring
- Data Center Monitoring

### Gen 3 Mobile Gateway Features

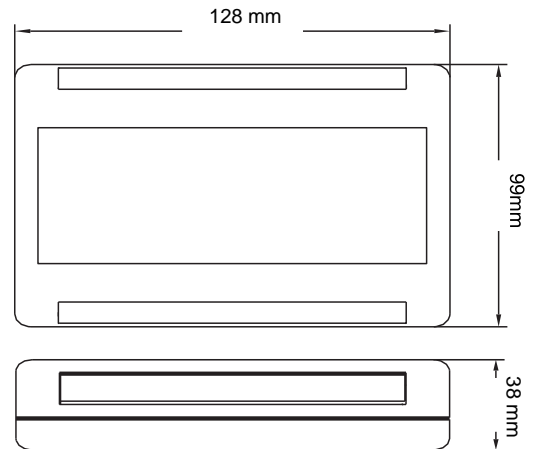
- Wireless range of 1,000+ feet through 12-14 walls \*
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 50,000 sensor message memory
- Over the air updates (future proof)
- True plug & play, no hassles for internet configuration set-up
- No PC required for operation
- Low-cost Mobile 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



## Gen3+ 3G/4G Mobile Gateways



### Gen3+ 3G/4G Mobile Gateway Specifications

#### Mobile

Mobile Technology	UMTS Frequency Range: 850 / 1700 / 1900 MHz
Antenna	Connector: 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	Mobile 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 +70 °C (14 to 158 °F)
Storage Temperature	-20 to +85 °C (-4 to 185 °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



## Commercial Grade Gateways

IoT MSS commercial grade Gateways are designed for applications in 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 and splashing water).

- Safe from falling dirt
- Protects against wind-blown dust
- Increased level of corrosion resistance
- Where there are excessively strong vibrations

Use these products within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality.