

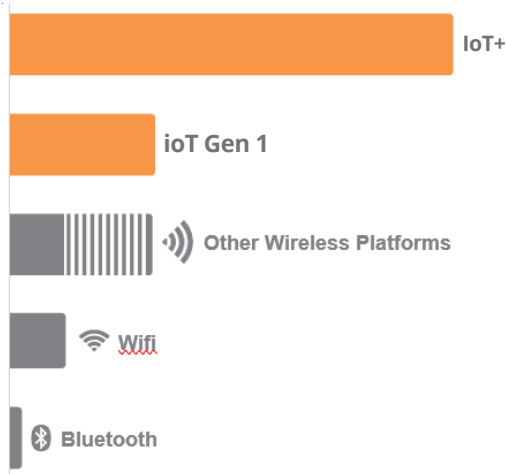


## IoT Management Group

ADG - 02

# Ethernet Gateway

## WIRELESS RANGE COMPARISON



## ABOUT

- Plug device into any open network port with an internet connection and it will connect with our online servers.
- Configure your network
- View sensor data
- Set notifications through SMS and Email
- Complete customisation at sensor and local network level
- Specifically designed to respond to global technology and growing need for remote wireless sensor management solutions

## FEATURES

- Wireless range of 1,000+ feet through 12-14 Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- 16,000 sensor message memory
- Over the air updates (future proof)
- Plug & Sense, no hassle set-up
- No PC required for operation
- Local status LEDs with transmission and online status indicators
- On-line heart-beat control
- Power outage notification
- AC power supply or Power-Over-Ethernet

## APPLICATIONS

- Facilities / Building Operations
- Restaurants / Food Service
- Server Rooms / Data Closets
- Pharmaceutical / Labs
- Heating and Cooling
- Agriculture Monitoring



# ETHERNET GATEWAY SPECIFICATIONS - ADG 02

## ETHERNET GATEWAY

- **Ethernet Type** Standard, POE
- **Antenna** Connector SMA | Gain 5.0dBI 900 MHz Product 3.0dBI
- **Hardware** 10/100 Ethernet Controller
- **IEEE Standard Compliance** 802.3-2002
- **Operation** Full and Half Duplex
- **Crossover Correction** Automatic MDI/MDI-X
- **Addressing** Preprogrammed MAC address
- **Host** T1 Sensor Gateway

## MECHANICAL

- **LED** H/W IoT Connection Status, Sensor Data Activity
- **Enclosure** ABS Plastics
- **Dimensions** 4.0in x 5.5in x 1.375in (139.85mm x 101.75mm x 34.95mm)
- **Weight** 12.6 ounces

## ENVIRONMENTAL

- **Operating Temperatures** -10°C to +70°C (14°F to 158°F) \*\*
- **Storage Temperatures** -20°C to +85°C (-4°F to 185°F)

## POWER

- 5.5 V AC adapter or 5.5 V Power-Over-Ethernet adapter \*

## WIRELESS

- **Wireless Range** 1,000+ ft. non-line-of-sight \*\*\*
- **Security** Encrypt-RF™ (256-bit key exchange and AES-128 CTR)
- **Certification** 900 MHz product, FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1.

\* Hardware cannot withstand negative voltage. Please take care when connecting a power device.

\*\* At temperatures above 100°C, it is possible for the board circuitry to lose programmed memory.

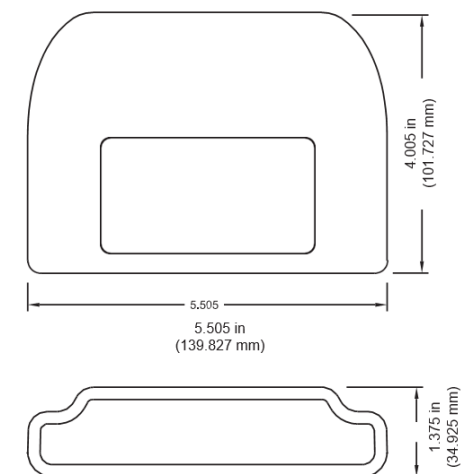
\*\*\* Actual range may vary depending on environment

# IMPORTANT

IoT+ commercial grade sensors are designed for applications in ordinary environments (normal room temperature, humidity and atmospheric pressure). Do not use these sensors under the following conditions as these factors can deteriorate the product characteristics and cause failures and burn-out.

- Corrosive gas or deoxidising gas: chlorine gas, hydrogen sulphide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc
- Volatile or flammable gas
- Dusty conditions
- Low-pressure or high-pressure environments
- Wet or excessively humid locations
- Places with saltwater, oils chemical liquids or organic solvents
- Where there are excessively strong vibrations
- Other places where similar hazardous conditions exist
- Use these products within the specified temperature range.
- Higher temperature may cause deterioration of the characteristics or the material quality.

## ETHERNET DIMENSIONS



## COMMERCIAL GRADE SENSORS

- Designed for applications in ordinary environments - normal room temperature, humidity, atmospheric pressure.
- Do not use under the following conditions as they may deteriorate the product causing 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

## INDUSTRIAL GRADE SENSORS - TYPE 1, 2, 4, , 4X, 12 AND 13 NEMA RATED ENCLOSURE

- Enclosed in reliable, weatherproof NEMA rated enclosures.
- NEMA enclosures constructed for indoor and outdoor use and protect the sensory against the ingress of solid foreign objects - dust
- Protects against damaging effects of water - rain, sleet, snow, splashes, hose directed water.
  - Safe from falling dirt.
  - Protects against wind blown dust.
  - Protects against water damage.
  - Increased level of corrosion resistance.
  - Will remain undamaged by ice formation on the enclosure.



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