

plumbSMART Gateway

Connect Your Products to the Zurn Cloud and plumbSMART™



ZGW-LORA-W1

The Gateway harnesses the power of the LoRaWAN™ protocol to provide deep in-building penetration and connectivity to thousands of IoT assets.

Easy to deploy thanks to integrated antennas, it can be mounted on walls or ceilings to extend LoRa® connectivity in commercial buildings like hotels, convention centers, offices and retail facilities providing coverage in difficult to reach areas cell tower or rooftop deployments may not penetrate. The Gateway offers your choice of 4G-LTE or Ethernet IP backhaul for connecting your Zurn Connected Products to the Zurn Cloud and plumbSMART portal.

Benefits

- Provide improved service level agreements for LoRa
- Affordable LoRa connectivity in or around commercial buildings
- Configurable Ethernet and 4G-LTE interfaces for primary or secondary WAN
- Quick and easy to deploy
- Certified and carrier approved



Features

- 4G-LTE with 2x2 MiMo
- LoRa omni-directional internal antenna with +2 dBi gain for 868/915 MHz ISM band
- Ethernet RJ-45 10/100 BaseT for IP backhaul
- Support for maximum 27dBm transmitter power output



GATEWAY CONNECTED WITH
ETHERNET LAN



GATEWAY CONNECTED WITH
LTE CELLULAR

Gateway (ZGW-LORA-W1)

Specifications

	AT&T
Cellular Connection	Dual-mode LTE CAT-1 with fallback to 3G
Cellular Frequency Band (MHz)	LTE bands 2, 5 and 12, plus 3G bands 2 and 5
Packet Data	10 Mbps peak downlink / 5 Mbps peak uplink
Processor and Memory	ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets • 400 MHz • 16K Data Cache • 16K Instruction Cache • 256 MB DDR RAM • 256 MB Flash Memory
LoRa Radio Frequency	902 -928 MHz ISM LoRa Digital Spread Spectrum Radio
Input Power	100-240 VAC 50/60 Hz 0.4A External adaptor to 5 VDC 2.5A input
POWER RF OUTPUT	
Max Transmitter Power Output	27 dBm maximum output power before antenna
Integral Antenna Systems	Cellular (diversity) and LoRa
CONNECTORS	
Ethernet	RJ-45 Ethernet 10/100 port
SIM	3FF Micro SIM
PHYSICAL DESCRIPTION	
Dimensions (LxWxH)	165 x 133 x 32 mm
Weight	1.36 kg
Chassis Type	PC-ABS
ENVIRONMENTAL	
Operating Temperature	-10° to +60° C*
Storage Temperature	-40° to +85° C
Relative Humidity	20% to 90%, non-condensing
CERTIFICATIONS	
EMC Compliance	US: FCC Part 15 Class B. EU: EN 55022 Class B, EN 301 489-3 V1.6.1 (2013-08), EN 301 489-7 V1.3.1 (2005-11), EN 301 489-1 V1.9.2 (2011-09), EN 301 489-24 V1.5.1 (2010-10). Canada: ICES-003
Radio Compliance	FCC Part 22,24,27 EN62311, EN301 511, EN301 908-1-2, EN301 908-1-13, EN300-220
Safety	UL/cUL 60950-1 2nd Ed., IEC 60950-1 2nd Ed AM2
Network Approvals	PTCRB, GCF certified Cell Module, AT&T, Verizon
Quality	MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop, Random Vibration, Swept-Sine Vibration. IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat