

Biz4Intellia Outdoor LoRaWAN Gateway INT-LoRaMult-02



Biz4Intellia LoRaWAN gateway is a robust 8-channel outdoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, UG67 supports connection with more than 2000 nodes. This gateway has line of sight up to 15 km and IP67 waterproof case, which is ideally suited to smart agriculture, smart metering and many other outdoor applications.

Gateway supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular, but also has integrated mainstream network servers (such as TTI, ChirpStack, etc.) and built-in network server.

Features

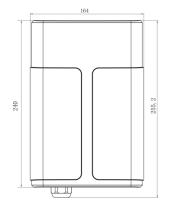
- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handing a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP67 waterproof enclosure and industrial design for harsh environment applications
- Wall or pole mounting (optional)
- Capacitor for sending alarms in case of power failure
- Multi backhaul backups with Ethernet, cellular (4G/3G) and Wi-Fi

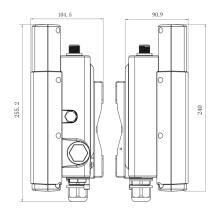
- Enable security communication with multiple VPNs
 like IPsec/OpenVPN/L2TP/PPTP/DMVPN
- Compatible with mainstream network servers like
 The Things Industries, ChirpStack, etc.
- Detect and analyze the noise level and provide intuitive diagram for deployment
- Built-in network server and MQTT/HTTP/HTTPS API for easily integration
- Embedded Python SDK for user's secondary development
- Fast and user-friendly programming by Node-RED development tool

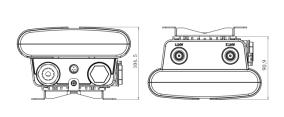
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Dimensions(mm)







Specifications

Hardware System	
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
Memory	512 MB DDR4 RAM
Flash	8 GB eMMC
LoRaWAN	
Antenna	2 × Internal Antennas + 2 × 50 Ω N-Female External
Connectors Channel Frequency Band	8 (Half/Full-duplex) CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-140 dBm Sensitivity @292bps
Output Power	27dBm Max
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Ethernet Interface	
Port	1 × RJ45 (PoE PD supported)
Physical Layer	10/100/1000 Base-T (IEEE 802.3)
Data Rate	10/100/1000 Mbps (Auto-Sensing)
Interface	Auto MDI/MDIX
Mode	Full or Half Duplex (Auto-Sensing)
Wi-Fi Interface	
Antenna	Internal Antenna
Standards	IEEE 802.11 b/g/n, 2.4 GHz
Mode	AP or Client mode
Security	WPA/WPA2 authentication, WEP/TKIP/AES

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encryption	802	11h·	18	dRm	+/-20	dRm	(11	Mhns)	
	OUZ.	IIV.	10	ubili	7/-2.0	ubili	111	IVIDUSI	

802.11g: 15 dBm +/-2.0 dBm (6 Mbps)

802.11g: 15 dBm +/-2.0 dBm (54 Mbps)

Tx Power 802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)

802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)

802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)

Cellular Interface (Optional)

Antenna Internal Antenna
SIM Slot 1 (mini SIM-2FF)

GPS

Antenna Internal Antenna

Sensitivity -167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-

acquisition Position Accuracy <2.5m CEP

Others

Reset Button 1 × RST

Console Port 1 × Type-C

LED Indicators 1 × SYS, 1 × LoRa, 1 × LTE

Built-in Watchdog, RTC, Timer

Software

PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, Network Protocols

DNS, ARP, SNTP, Telnet, SSH, MQTT, etc.

VPN Tunnel OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN

Firewall ACL/DMZ/Port Mapping/MAC Binding/URL Filter

Web, CLI, SMS, On-demand dial up, Management

Workplace Platform

Reliability WAN Failover

App Python SDK, Node-RED

Power Supply and Consumption

1. 1 × 802.3 af PoE input Power Input

2. 12 VDC with M12 Connector

Power Consumption Typical 3.6 W, Max 4.8 W

Physical Characteristics

Ingress Protection IP67

Dimensions 240 x 164 x 90.9 mm (9.45 x 6.46 x 3.58

in) Installation Wall or Pole Mounting

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Environmental	
Operating	-40°C to +70°C (-40°F to +158°F)
Temperature	Reduced Cellular Performance Above 60°C
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F
Approvals	
Regulatory	CE, FCC, RCM, TELEC, ANATEL
Environmental	RoHS