

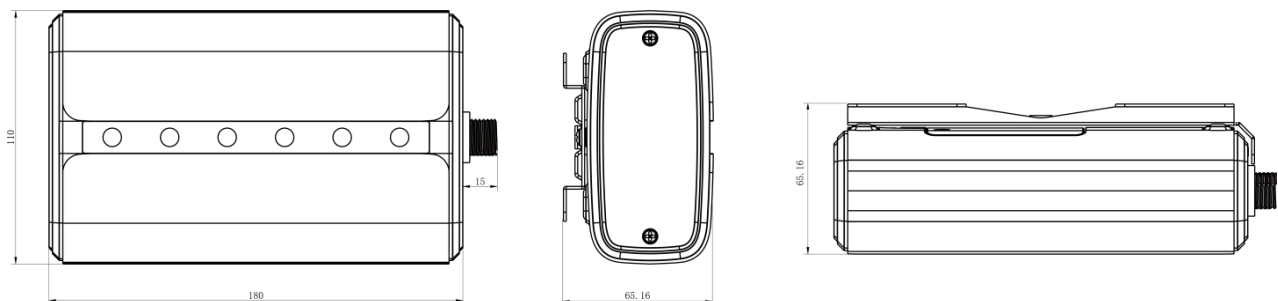
# Intellia LoRaWAN Gateway



Intellia LoRaWAN gateway is a robust 8-channel indoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, gateway supports connection with more than 200 nodes. Gateway has line of sight up to 5 km and can cover about 2km in urbanized environment, which is ideally suited to smart office, smart building and many other indoor applications.

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

## 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<br>( <u>Optional</u> : 1 × 50 Ω N-Female External Connector ) |
| Channel        | 8 (Half/Full-duplex)  |
| Frequency Band | CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923                                     |
| Sensitivity    | -140dBm Sensitivity @292bps   |
| Output Power   | 27dBm Max   |
| Protocol       | V1.0 Class A/Class C and V1.0.2 Class A/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, 2.4GHz                       |
| Mode      | AP or Client mode                               |
| Security  | WPA/WPA2 authentication, WEP/TKIP/AES           |
|           | encryption 802.11b: 18 dBm +/-2.0 dBm (11 Mbps) |
|           | 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 ( <a href="#">mini-SIM-2FF</a> ) |

### Others

|                |  |
|----------------|--|
| Reset Button   | 1 × RST  |
| Console Port   | 1 × Type-C                                       |
| LED Indicators | 1×POWER, 1×STATUS, 1×LoRa, 1×Wi-Fi, 1×LTE, 1×ETH |
| Built-in       | Watchdog, RTC, Timer                             |

### Software

|                   |  |
|-------------------|--|
| Network Protocols | <a href="#">PPPoE</a> , <a href="#">SNMP v1/v2c/v3</a> , TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, <a href="#">SNTP</a> , Telnet, SSH, MQTT, etc. |
| VPN Tunnel        | OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN  |
| Firewall          | ACL/DMZ/Port Mapping/MAC Binding/URL Filter  |
| Management        | Web, CLI, SMS, On-demand dial up, <a href="#">DeviceHub</a> , IoT Cloud  |
| Reliability       | WAN Failover   |

### Power Supply and Consumption

|                   |   |
|-------------------|---|
| Power Input       | 1. DC Jack Connector for 9-24 VDC power supply<br>2. 1 × <a href="#">802.3 af</a> PoE input |
| Power Consumption | Typical 2.9 W, Max 4.2  |

### Physical Characteristics

|                    |   |
|--------------------|---|
| Ingress Protection | IP65                                    |
| Dimensions         | 180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 |
| in) Installation   | Desktop, Wall or Pole Mounting          |

### Environmental

|                       |   |
|-----------------------|---|
| Operating Temperature | -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 |