

WISE-6610 V2

Industrial LoRaWAN Gateway

NEW



Introduction

The WISE-6610v2 is the next generation of Industrial LoRaWAN Gateway. It has high-performance that offers reliable connectivity for industrial environments. It supports the LoRaWAN protocol for building LoRaWAN private and public networks, as well as various industrial protocols including Modbus, OPCUA, BACnet/IP, MQTT, etc. The hardware and software flexibility of the WISE-6610 provides rich features for edge intelligence systems, and also supports VPN tunneling with various protocols ensures safe communications. The WISE-6610 also runs a embedded LoRaWAN network server (LNS) that can decode the LoRaWAN data directly in our device.

Specifications

System

▪ CPU	ARM Cortex-A8, 1000 MHz
▪ RF Chip	Semtech SX1302
▪ Memory	4GB DDR3
▪ Internal Storage	16GB EMMC

WSN Support

▪ Standard	LoRaWAN
▪ Transmit Power(dBm)	13.94(CE)/25.17(FCC)
▪ Frequency	IN865/EU868/AU915/US915/KR920/AS923
▪ ANT Connector	RP-SMA Male connector x 1
▪ Antenna Gain (dBi)	2.23 (EU868MHz)/0.67 (915MHz)/2.9 (928MHz)

LAN Interface

▪ Ethernet	10/100 Mbps, auto MDI/MDIX
▪ Connector	2 x RJ45
▪ Protection	1.5-kV built-in magnetic isolation protection

General

▪ LED Indicators	PWR, DAT, WAN, ETH
▪ Reboot Trigger	Reset button

Features

- Latest Semtech SX1302 gateway chipset solution, it doubles the packet processing speed
- Embedded LoRaWAN Network Server for both private and public system application
- Compatible with Multiple Network Servers like Actility, The Things Network, Chirpstack, AWS, etc
- Supports Modbus/TCP, MQTT, BACnet, OPCUA protocols
- Build-in Node-Red, LoRaWAN network server and Edgelink software (with -EL P/N) packages
- Global LoRaWAN Frequency Plans
- DIN rail and wall mounting design
- Backhaul 4G (by additional adapter)

Software

- **Network and Routing** DHCP server, NAT/PAT, VRRP, dynamic DNS client, DNS proxy, VLAN, QoS, DMVPN, NTP client/server, IGMP, BGP, OSPF, RIP, SMTP, SMTSP, SNMP v1/v2c/v3, backup routers, PPP, PPPoE, SSL, port forwarding, host port routing, Ethernet bridging, network server
- **Configuration** SSH, Web Browser
- **Network Security** HTTPS, SSH, VPN tunnels, SFTP, DMZ, firewall (IP filtering, MAC address filtering, inbound/outbound port filtering)
- **VPN tunnelling** Open VPN client and server and P2P, L2TP, PPTP, GRE, EasyVPN, IPsec with IKEv1 and IKEv2
- **Software package** Node-Red, LoRaWAN Network Server, Edgelink (only in -EL P/N)

Mechanics

- **Dimensions (W x H x D)** 150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27")
- **Mounting** DIN rail, wall
- **Weight** 500g
- **Enclosure Rating** IP30
- **SD Card** 1 x Micro SD Card Slot
- **SIM Card** 2 x Nano SIM Card Slot

Power Requirements

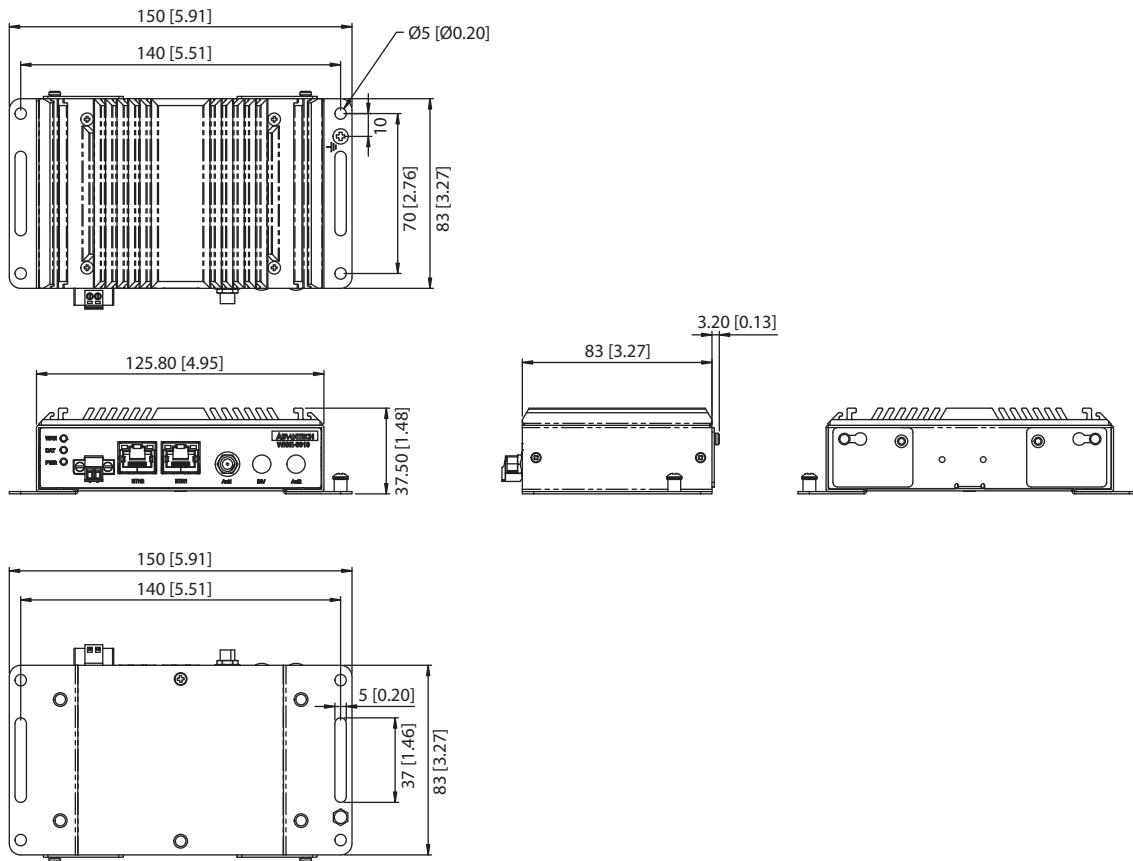
- **Power Input** 9 ~ 36 V_{DC}
- **Power Consumption** Typ. 3W@24V (Max.3.2W)
Typ. 3W@12V (Max.4W)

Environment

- **Operating Temperature** -40 ~ 75°C
- **Storage Temperature** -40 ~ 85°C
- **Operating Humidity** 10 ~ 95% RH

Dimensions

Unit: mm [inch]



Ordering Information

- **WISE-6610-NB** LoRaWAN gateway with NA915 MHz
- **WISE-6610-EB** LoRaWAN gateway with EU868 MHz
- **WISE-6610-TB** LoRaWAN gateway with AS923 MHz
- **WISE-6610-JB** LoRaWAN gateway with JP923 MHz
- **WISE-6610-EL-NB** LoRaWAN gateway with NA915 MHz and Edgelink
- **WISE-6610-EL-EB** LoRaWAN gateway with EU868 MHz and Edgelink
- **WISE-6610-EL-TB** LoRaWAN gateway with AS923 MHz and Edgelink
- **WISE-6610-EL-JB** LoRaWAN gateway with JP923 MHz and Edgelink
- **WISE-6610-BTO** WISE-6610 Standard P/N with accessories

* Package includes a LoRa antenna and a Din rail mounting bracket

Accessories

Cellular Solution (SIM card is not included, cable and antenna will need 2pcs as a set)

- **96PD-EG25GGB** LTE Cat 4 Module with GNSS, Global version
- **1750006264** SMA(F) Cable, 15 cm
- **1750009236-01** LTE Antenna for 698-2690MHz
- **XAJP-IAN067** LTE Antenna for TELEC, Japan only

Power Supply for WISE-6610 V2

- **BB-RPS-V2-WR2-US** Power Supply, v2, 12V/1A, US plug
- **BB-RPS-V2-WR2-UK** Power Supply, v2, 12V/1A, UK plug
- **BB-RPS-V2-WR2-EU** Power Supply, v2, 12V/1A, EU plug
- **BB-RPS-V2-WR2-AUS** Power Supply, v2, 12V/1A, AUS plug