WISE-6610 V2

Industrial LoRaWAN Gateway

Preliminary

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 packages
- Global LoRaWAN Frequency Plans
- DIN rail and wall mounting design
- Backhaul 4G (by additional adapter)

RoHS COMPLIANT 2002/95/EC

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, Backnet/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

WSN Support

Standard	LoRaWAN
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
ANT Connector	RP-SMA Male connector x 1

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

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, SMTPS, 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

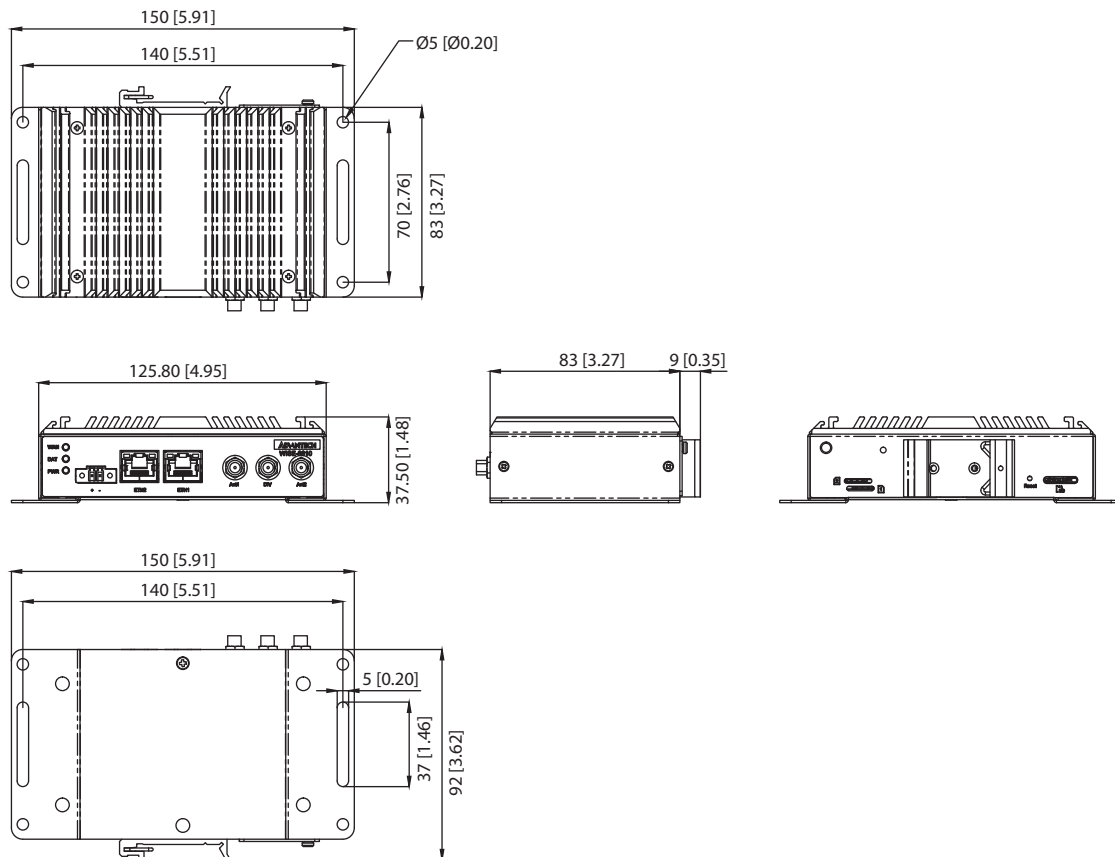|	
Dimensions (W x H x D)	150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27")
Mounting	DIN rail, wall
Weight	500g
Enclosure Rating	IP30
SD Card	1 x Micro SD Card Slot
SIM Card	2 x Micro SIM Card Slot

Power Requirements

Power Input	10 ~ 30 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 accesoories

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

Accessories

Cellular Solution (SIM card is not includes, 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**   Tripole Ant. 698~2690MHz LTE SMA 90/180 171mm
- **XAJP-IAN067**   Antenna for TELEC, Japan

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