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
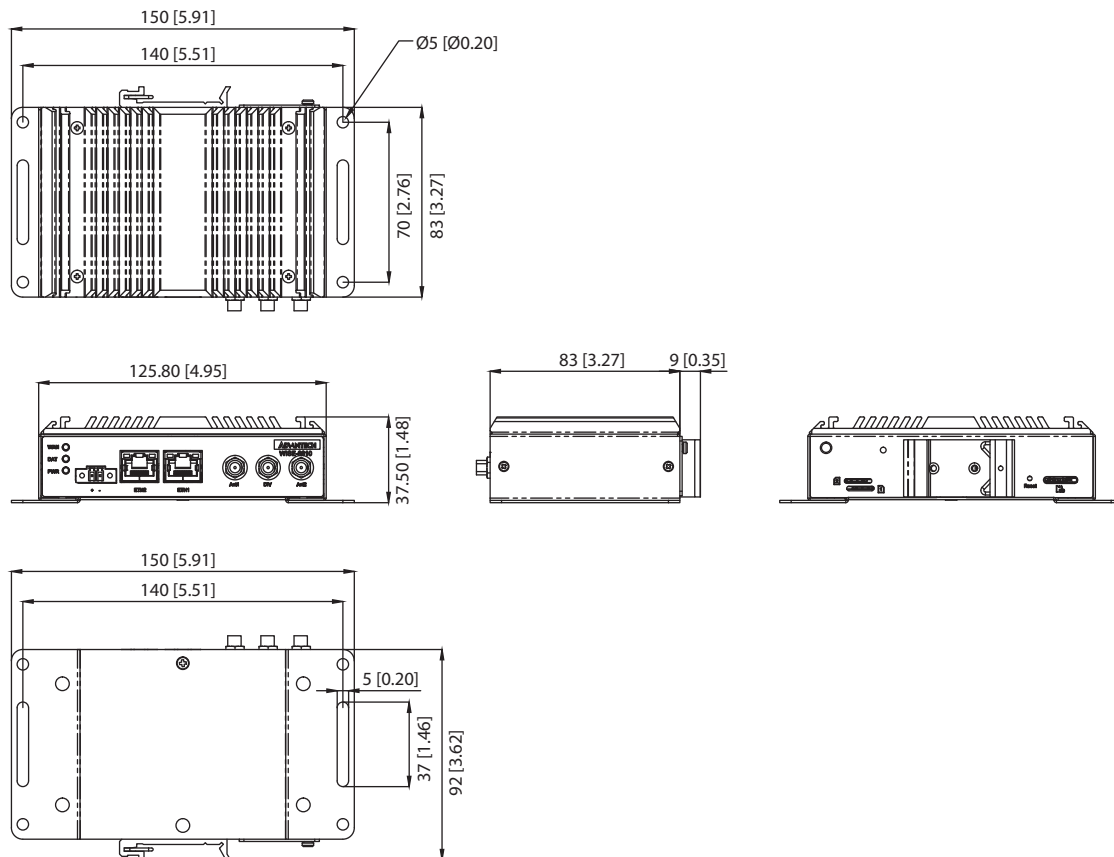- **SIM Card** — 2 x Micro SIM Card Slot

Power Requirements

- **Power Input** — $10 \sim 30\ V_{DC}$
- **Power Consumption** — Typ. 3W@24V (Max.3.2W) Typ. 3W@12V (Max.4W)

Environment

- **Operating Temperature** — $-40 \sim 75°C$
- **Storage Temperature** — $-40 \sim 85°C$
- **Operating Humidity** — $10 \sim 95\%$ RH

ADVANTECH Industrial Wireless and Protocol Gateway Solutions

All product specifications are subject to change without notice.   Last updated: 9-Apr-2024

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