WISE-6610 V2 Industrial LoRaWAN Gateway

NEW

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

System

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

WSN Support

- **Standard** — LoRaWAN
- **Frequency** — 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 Nano SIM Card Slot

Power Requirements

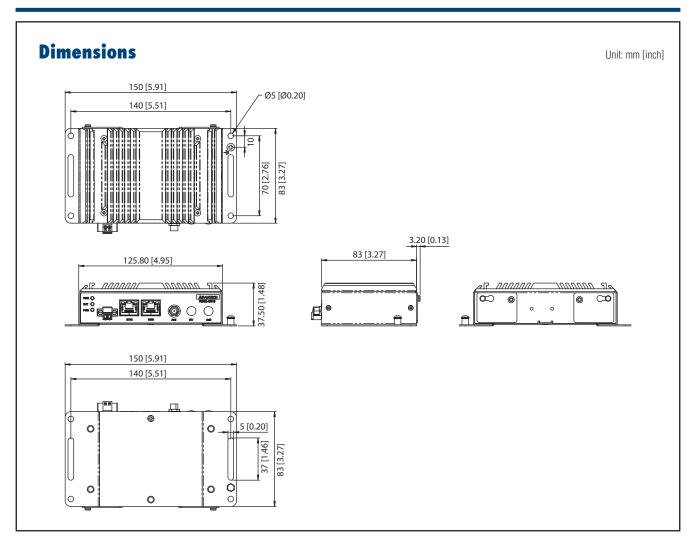- **Power Input** — 9 ~ 36 V_{DC}
- **Power Consumption** — Typ. 3W@24V (Max.3.2W) / Typ. 3W@12V (Max.4W)

Environment

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

ADVANTECH Industrial Wireless and Protocol Gateway Solutions

All product specifications are subject to change without notice.   Last updated: 1-Jul-2024

Dimensions

Unit: mm [inch]

150 [5.91]
140 [5.51]
Ø5 [Ø0.20]
10
70 [2.76]
83 [3.27]

125.80 [4.95]
37.50 [1.48]

3.20 [0.13]
83 [3.27]

150 [5.91]
140 [5.51]
5 [0.20]
37 [1.46]
83 [3.27]

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