WISE-6610

Industrial LoRaWAN Gateway



Features

- Long-range wide area IoT gateway
- LoRaWAN protocol for closed and public system application
- Ethernet and I/O for connecting a wide array of field assets
- DIN rail and wall mounting design
- Low power consumption for solar and battery power applications
- Enhanced memory for hosting customer software applications
- Redundancy-enhanced functions for continuous data transmission





Introduction

The WISE-6610 is a high-performance LoRaWAN gateway that offers reliable connectivity for industrial environments. It supports the LoRaWAN protocol for building LoRaWAN private and public networks, as well as various protocols including MQTT. The hardware and software flexibility of the WISE-6610 provides rich features for edge intelligence systems, and its support for VPN tunneling with various protocols ensures safe communications. The WISE-6610 also provides a network server that can phase the LoRaWAN data in our device. The WISE-6610 provides the redundancy-enhanced functions to prevent connection loss.

Specifications

WSN Support

Standard LoRaWAN 868/915/923MHz Frequency

 ANT Connector RP-SMA Male connector x 1

LAN Interface

Ethernet 10/100 Mbps, auto MDI/MDIX

Connector 1 x RJ45

Protection 1.5-kV built-in magnetic isolation protection

Digital I/O

Port Type 1x Digital Input On Voltage: 2.7V to 36V_{DC} ■ Port Connector 4-way Molex mini-fit connector

General

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

Software

Network Security

 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 SSH, Web Browser Configuration

HTTPS, SSH, VPN tunnels, SFTP, DMZ, firewall (IP filtering, MAC address filtering, inbound/outbound

VPN tunnelling Open VPN clientand server and P2P, L2TP, PPTP, GRE,

EasyVPN, IPSecwith IKEv1 and IKEv2

Cellular Interface (WISE-6610-EXXXC/WISE-6610-AXXXC Only)

 LTEBitrate 150 Mbps (DL), 50 Mbps (UL)

3 LTE Bands B20 (800 MHz), B8 (900 MHz), B3 (1800 MHz), B1 (2100

MHz), B7 (2600 MHz) 3G Bit rate 42.0 Mbps (DL), 5.76 Mbps (UL)

900, 2100 MHź No. of SIM Slots 2 x Mini SIMs (2FF)

ANT Connector 2 x RP-SMA female connectors

Cellular Interface (WISE-6610-N100C-A/N500C-A Only)

LTE Cat M1

LTE Bit rate 375 Kbps (DL), 375 Kbps (UL)

B12,B13,B28 (700 MHz),B20 (800 MHz),B5,B18,B19, 3 LTE FDD

B26 (850 MHz), B8 (900 MHz), B4 (1700 MHz), B3 (1800

MHz), B2 (1900 MHz), B1 (2100MHz)

LTETDD B39 (1900 MHz)

Mechanics

③ Dimensions (WxHxD) 150x37.5x83mm(5.9"x1.48"x3.27")

Mounting DIN rail, wall Weight **Enclosure Rating** IP30

1 x Micro SD Card slot SD Card

Power Requirements

Power Input 9 ~ 36 Vpc

Power Connector 4-way Molex mini-fit connector

Power Consumption 3.1/6.6/40 mW (average/peak/sleep mode)

Environment

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

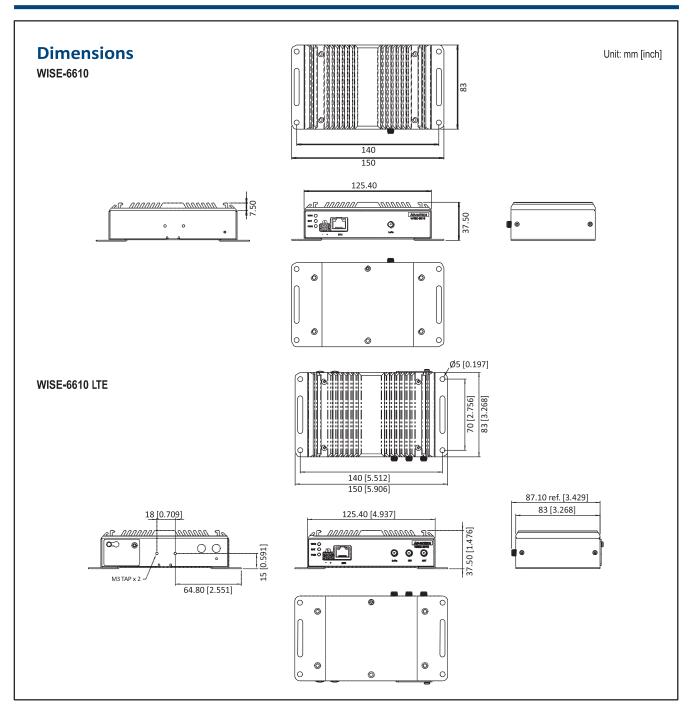
Regulatory Approvals

3 EMC EN61000-4-2, Level 3

EN61000-4-3, Level 3 EN61000-4-4, Level 3 EN61000-4-5, Level 3 EN61000-4-6, Level 3 EN61000-4-12, Level 3

EN61000-4-11, voltage dip: 70% IEC 60068-2-27

3 Shock Free Fall IEC 60068-2-32 Vibration IEC 60068-2-6



Ordering Information

- WISE-6610-N100-A
- WISE-6610-E100-A
- WISE-6610-A100-A
- WISE-6610-N500-A
- WISE-6610-E500-A
- WISE-6610-A100C-A
- $Lo RaWAN\,gateway\,supports\,up\,to\,100\,nodes\,with$ 915 MHz
- LoRaWAN gateway supports up to 100 nodes with 868 MHz
- $Lo RaWAN\,gateway\,supports\,up\,to\,100\,nodes\,with$ 923 MHz
- $Lo RaWAN\,gateway\,supports\,up\,to\,500\,nodes\,with$ 915 MHz
- $Lo RaWAN\,gateway\,supports\,up\,to\,500\,nodes\,with$ 868 MHz
- LoRaWAN Cellular Gateway support up to 100 nodes with 923 MHz
- WISE-6610-A500C-A
- WISE-6610-A500-A
- WISE-6610-N100C-A
- WISE-6610-N500C-A
- WISE-6610-E100C-A
- WISE-6610-E500C-A
- LoRaWAN Cellular Gateway support up to 500 nodes with 923 MHz
- LoRaWAN gateway supports up to 500 nodes with 923 MHz
- LoRaWAN Cellular Gateway support up to 100 nodes with 915 MHz
- LoRaWAN Cellular Gateway support up to 500 nodes with
- LoRaWAN Cellular Gateway support up to 100 nodes with
- LoRaWAN Cellular Gateway support up to 500 nodes with 868 MHz