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
- Frequency ANT Connector
- LAN Interface
- Ethernet
- Connector
- Protection

Digital I/O

- Port Type
- Port Connector

General

- LED Indicators
- Reboot Trigger

Software

- Network and Routing
- Configuration
- **Network Security**

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

LoRaWAN

1 x RJ45

868/915/923MHz

RP-SMA Male connector x 1

10/100 Mbps, auto MDI/MDIX

4-way Molex mini-fit connector

PWR. DAT. WAN. ETH

Reset button

1.5-kV built-in magnetic isolation protection

1x Digital Input On Voltage: 2.7V to 36VDC

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

VPN tunnelling Open VPN client and server and P2P, L2TP, PPTP, GRE, EasyVPN, IPSec with IKEv1 and IKEv2

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

SSH Web Browser

l	LTE Bit rate	150 Mbps (DL), 50 Mbps (UL)
	LTE Bands	B20 (800 MHz), B8 (900 MHz), B3 (1800 MHz), B1 (2100
		MHz), B7 (2600 MHz)
I	3G Bit rate	42.0 Mbps (DL), 5.76 Mbps (UL)
	3G Bands	900, 2100 MHz
	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) Cat M1

B39 (1900 MHz)

DIN rail, wall

- LTE
- LTE Bit rate
- LTE FDD
- LTE TDD

Mechanics

- Dimensions (W x H x D)
- Mounting
- . Weight .
- **Enclosure Rating** • SD Card

Power Requirements

- Power Input
- Power Connector

Environment

- **Operating Temperature** .

- 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%
 Shock Free Fall Vibration RF 	IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 FCC/RED/NCC

Accessories

> **Power Supply** LoRaWAN Antenna LTE Antenna

BB-RPS-MO4-M (not included) 1750008946-01(included) 1750009236-01 (cellular version included)

1 x Micro SD Card Slot (WISE-6610-XXXXC Only)

500a

IP30

- Power Consumption
- Storage Temperature
- 9~36 VDC 4-way Molex mini-fit connector 8.2W-9W (9-36Vpc/1A)

375 Kbps (DL), 375 Kbps (UL)

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

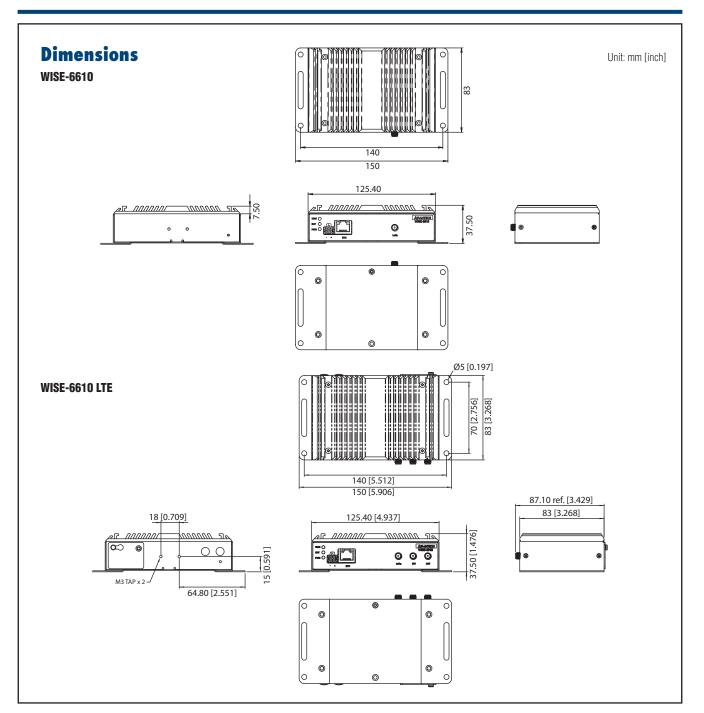
150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27")

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

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

- -40 ~ 75°C
- -40~85°C 10~95% RH
- **Operating Humidity Regulatory Approvals**

WISE-6610



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 LoRaW 923 M
- LoRaWAN gateway supports up to 100 nodes with 915 MHz LoRaWAN gateway supports up to 100 nodes with
- 868 MHz LoRaWAN gateway supports up to 100 nodes with
- 923 MHz
- LoRaWAN gateway supports up to 500 nodes with 915 MHz
- LoRaWAN 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 868 MHz

923 MHz

923 MHz

915 MHz

915 MHz

868 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

LoRaWAN Cellular Gateway support up to 100 nodes with

LoRaWAN gateway supports up to 500 nodes with