# 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 Sunnort

<ul> <li>WSN Support</li> <li>Standard</li> </ul>	LoRaWAN	LTE FDD
<ul> <li>Standard</li> <li>Frequency</li> <li>ANT Connector</li> </ul>	868/915/923MHz RP-SMA Male connector x 1	• LTE TDD
LAN Interface <ul> <li>Ethernet</li> <li>Connector</li> <li>Protection</li> </ul>	10/100 Mbps, auto MDI/MDIX 1 x RJ45 1.5-kV built-in magnetic isolation protection	Mechanics Dimension Mounting Weight Enclosure SD Card
Digital I/O • Port Type • Port Connector	1x Digital Input On Voltage: 2.7V to $36V_{\text{DC}}$ 4-way Molex mini-fit connector	Power Requ Power Inpu
<b>General</b> • LED Indicators • Reboot Trigger	PWR, DAT, WAN, ETH Reset button	<ul> <li>Power Con</li> <li>Power Con</li> <li>Environmer</li> </ul>
Software <ul> <li>Network and Routing</li> </ul>	DHCP server, NAT/PAT, VRRP, dynamic DNS client, DNS proxy, VLAN, QoS, DMVPN, NTP client/server, IGMP,	<ul> <li>Operating</li> <li>Storage Te</li> <li>Operating</li> </ul>
<ul> <li>Configuration</li> <li>Network Security</li> <li>VPN tunnelling</li> </ul>	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 HTTPS, SSH, VPN tunnels, SFTP, DMZ, firewall (IP filtering, MAC address filtering, inbound/outbound port filtering) Open VPN client and server and P2P, L2TP, PPTP, GRE, FerwIVIN UPCPS with VPCP and VPCP.	Regulatory - EMC
Cellular Interface (WI	EasyVPN, IPSec with IKEv1 and IKEv2 SE-6610-EXXXC/WISE-6610-AXXXC Only) 150 Mbps (U)	<ul> <li>Shock</li> <li>Free Fall</li> <li>Vibration</li> </ul>
<ul> <li>LIE Bit rate</li> <li>LTE Bands</li> <li>3G Bit rate</li> <li>3G Bands</li> <li>No. of SIM Slots</li> </ul>	150 Mbps (DL), 50 Mbps (UL) B20 (800 MHz), B8 (900 MHz), B3 (1800 MHz), B1 (2100 MHz), B7 (2600 MHz) 42.0 Mbps (DL), 5.76 Mbps (UL) 900, 2100 MHz 2 x Mini SIMs (2FF)	<ul> <li>RF</li> <li>Accessorie</li> <li>Power Sup</li> <li>LoRaWAN</li> </ul>
		= ITE Antor

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

LTE

Cat M1

- LTE Bit rate FDD

TDD

#### nanics

- nensions (W x H x D) 150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27")
  - DIN rail, wall 500g
- ight
- losure Rating
- IP30 1 x Micro SD Card Slot (WISE-6610-XXXXC Only)

#### r Requirements

- ver Input ver Connector
- ver Consumption

#### onment

Operating Temperature Storage Temperature	-40 ~ 75°C -40 ~ 85°C
Sionaye remperature	-40~05 0
<ul> <li>Operating Humidity</li> </ul>	10 ~ 95% RH

#### latory Approvals

ck Fall ation	EN61000-4-2, Level 3 EN61000-4-3, Level 3 EN61000-4-4, Level 3 EN61000-4-5, Level 3 EN61000-4-12, Level 3 EN61000-4-12, Level 3 EN61000-4-11, voltage dip: 70% IEC 60068-2-27 IEC 60068-2-6 FCC/RED/NCC

#### ssories

- wer Supply
  - LoRaWAN Antenna LTE Antenna

BB-RPS-M04-M (not included) 1750008946-01(included) 1750009236-01 (cellular version included)

**Industrial Wireless and Protocol Gateway Solutions** AD\ANTECH

2 x RP-SMA female connectors

All product specifications are subject to change without notice.

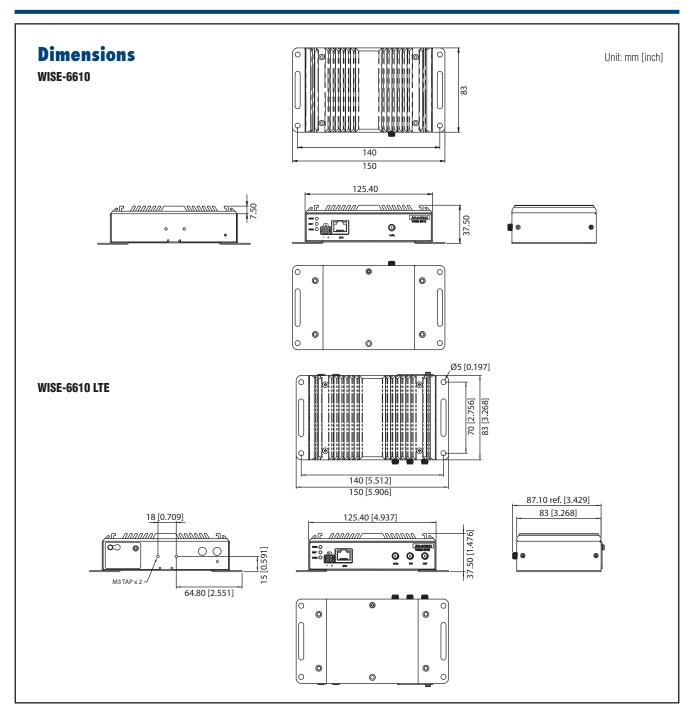
**ANT Connector** 

Cal Will (1) (375 Kbps (UL) (375 Kbps (UL) (376 Kbps (DL), 375 Kbps (UL) (376 Kbps (UL)) B39 (1900 MHz)

 $9 \sim 36 \ V_{\text{DC}}$  4-way Molex mini-fit connector

8.2W-9W (9-36V<sub>DC</sub>/1A)

### **WISE-6610**



# **Ordering Information**

- WISE-6610-N100-A LoRaWAN gateway supports up to 100 nodes with 915 MHz
- WISE-6610-E100-A
- WISE-6610-A100-A
- WISE-6610-N500-A
- WISE-6610-E500-A
- WISE-6610-A100C-A
- 868 MHz LoRaWAN gateway supports up to 100 nodes with 923 MHz LoRaWAN gateway supports up to 500 nodes with

LoRaWAN gateway supports up to 100 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 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 915 MHz

LoRaWAN Cellular Gateway support up to 100 nodes with 868 MHz

LoRaWAN Cellular Gateway support up to 500 nodes with 868 MHz

# **Mouser Electronics**

Authorized Distributor

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