# 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

WSN Support		<ul> <li>LTE I</li> </ul>		
<ul> <li>Standard</li> <li>Frequency</li> <li>ANT Connector</li> </ul>	LoRaWAN 868/915/923MHz RP-SMA Male connector x 1	• LTE		
LAN Interface - Ethernet - Connector - Protection	10/100 Mbps, auto MDI/MDIX 1 x RJ45 1.5-kV built-in magnetic isolation protection	Mecha Dime Mour Weig Encle		
Digital I/O <ul> <li>Port Type</li> <li>Port Connector</li> </ul>	1x Digital Input On Voltage: 2.7V to $36V_{\mbox{\tiny DC}}$ 4-way Molex mini-fit connector	<ul> <li>SD C</li> <li>Power</li> <li>Power</li> </ul>		
<b>General</b> • LED Indicators • Reboot Trigger	PWR, DAT, WAN, ETH Reset button	<ul> <li>Powe</li> <li>Powe</li> <li>Enviro</li> </ul>		
Software • 0				
<ul> <li>Network and Routing</li> </ul>	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	<ul> <li>Stora</li> <li>Oper</li> <li>Regula</li> <li>EMC</li> </ul>		
<ul> <li>Configuration</li> <li>Network Security</li> </ul>	SSH, Web Browser HTTPS, SSH, VPN tunnels, SFTP, DMZ, firewall (IP filtering, MAC address filtering, inbound/outbound port filtering)	- Lind		
<ul> <li>VPN tunnelling</li> </ul>	Open VPN client and server and P2P, L2TP, PPTP, GRE, EasyVPN, IPSec with IKEv1 and IKEv2	- 06		
Cellular Interface (WISE-6610-EXXXC/WISE-6610-AXXXC Only) • Free				
<ul><li>LTE Bit rate</li><li>LTE Bands</li></ul>	150 Mbps (DL), 50 Mbps (UL) B20 (800 MHz), B8 (900 MHz), B3 (1800 MHz), B1 (2100	<ul><li>Vibra</li><li>RF</li></ul>		
<ul> <li>3G Bit rate</li> <li>3G Bands</li> <li>No. of SIM Slots</li> <li>ANT Connector</li> </ul>	MHz), B7 (2600 MHz) 42.0 Mbps (DL), 5.76 Mbps (UL) 900, 2100 MHz 2 x Mini SIMs (2FF) 2 x PB CM forget acceptore	Acces Pow Lor		

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

LTE

Cat M1

- LTE Bit rate FDD

Cal Will (1) (375 Kbps (UL) (375 Kbps (UL) (376 Kbps (DL), 375 Kbps (UL) (376 Kbps (UL)) (376 Kbps (UL))

TDD

#### nanics

- 150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27") nensions (W x H x D)
- unting
- IP30
- 1 x Micro SD Card Slot (WISE-6610-XXXXC Only)

## r Requirements

- ver Consumption
- $9 \sim 36 \ V_{\text{DC}}$  4-way Molex mini-fit connector 8.2W-9W (9-36V<sub>DC</sub>/1A)

#### onment

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

#### latory Approvals

ck e Fall ration	EN61000-4-2, Level 3 EN61000-4-3, Level 3 EN61000-4-4, Level 3 EN61000-4-6, Level 3 EN61000-4-6, Level 3 EN61000-4-12, Level 3 EN61000-4-11, voltage dip: 70% IEC 60068-2-32 IEC 60068-2-32 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)

2 x RP-SMA female connectors

All product specifications are subject to change without notice.

B39 (1900 MHz)

DIN rail, wall

500g

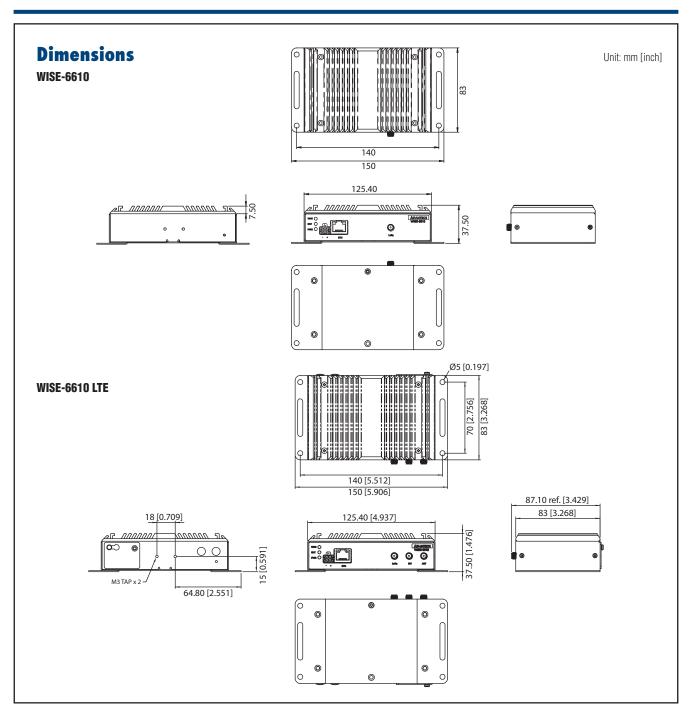
- ight
- losure Rating Card

  - ver Input ver Connector

# **Industrial Wireless and Protocol Gateway Solutions**

- No. of SIM Slots ANT Connector

## **WISE-6610**



# **Ordering Information**

868 MHz

- 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
- 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 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
- 11102 0010 21000 1
- 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
- A LoRaWAN Cellular Gateway support up to 100 nodes with 915 MHz
- DC-A
   LoRaWAN Cellular Gateway support up to 500 nodes with 915 MHz

   DC-A
   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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Advantech: WISE-6610-E100-A