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	 LTE FDD
 Frequency ANT Connector 	868/915/923MHz RP-SMA Male connector x 1	LTE TDD
LAN Interface Ethernet Connector Protection Digital I/O	10/100 Mbps, auto MDI/MDIX 1 x RJ45 1.5-kV built-in magnetic isolation protection	Mechanic Dimensio Mounting Weight Enclosure SD Card
 Port Type Port Connector 	1x Digital Input On Voltage: 2.7V to $36V_{\mbox{\tiny DC}}$ 4-way Molex mini-fit connector	Power Rec Power Inc
General • LED Indicators • Reboot Trigger	PWR, DAT, WAN, ETH Reset button	 Power Co Power Co Environme
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	 Operating Storage T Operating Regulatory
 Configuration Network Security VPN tunnelling 	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,	• EMC
EasyVPN, IPSec with IKEv1 and IKEv2 Cellular Interface (WISE-6610-EXXXC/WISE-6610-AXXXC Only) LTE Bit rate 150 Mbps (DL), 50 Mbps (UL) LTE Dit rate 150 Mbps (DL), 50 Mbps (UL)		 Shock Free Fall Vibration RF
 LTE Bands 3G Bit rate 3G Bands No. of SIM Slots ANT Connector 	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) 2 x RP-SMA female connectors	Accessori Power Si LoRaWA LTE Ante

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

LTE

Cat M1

LTE Bit rate LTE FDD

Cal Will (1) (375 Kbps (UL) (375 Kbps (UL) (376 Kbps (DL), 375 Kbps (UL) (376 Kbps (UL)) (376 Kbps (UL) (376 Kbps (UL)) (3 B39 (1900 MHz)

nics

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

Requirements

- er Input er Connector
- er Consumption

$9 \sim 36 \ V_{DC}$ 4-way Molex mini-fit connector 8.2W-9W (9-36V_{DC}/1A)

nment

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

atory Approvals

ck e Fall ration	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 EN61000-4-11, voltage dip: 70% IEC 60068-2-32 IEC 60068-2-32 IEC 60068-2-6 FCC/RED/NCC

sories

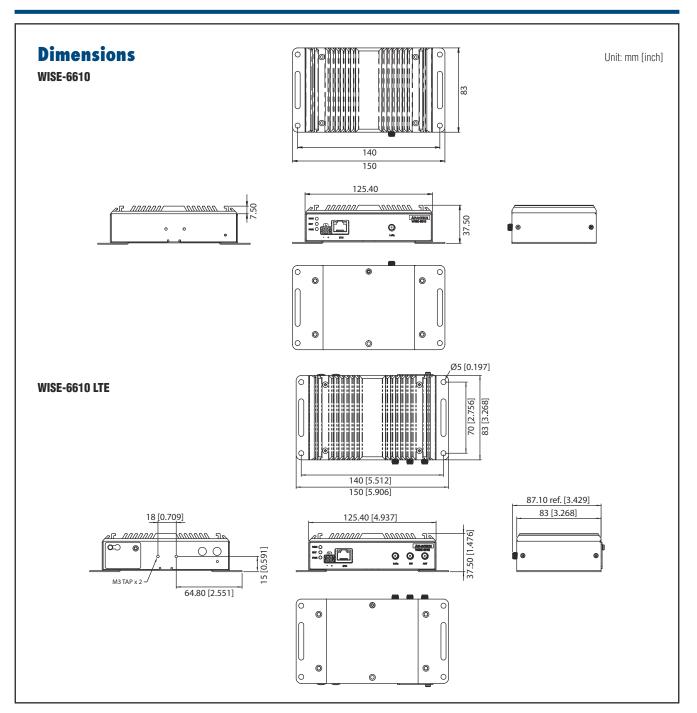
- er Supply
 - RaWAN Antenna LTE Antenna

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

Industrial Wireless and Protocol Gateway Solutions

ADVANTECH All product specifications are subject to change without notice.

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
- 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 .
- 923 MHz LoRaWAN gateway supports up to 500 nodes with

- WISE-6610-E500C-A

LoRaWAN Cellular Gateway support 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