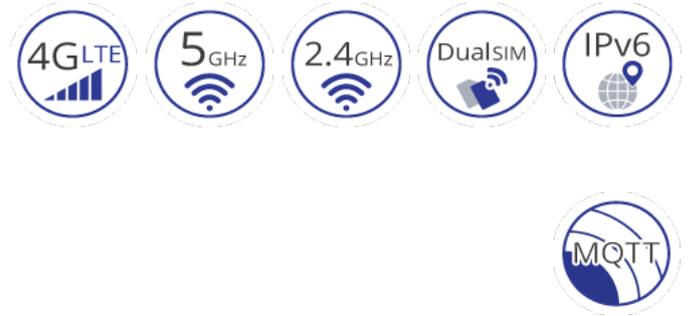# EW200 Series

Industrial LTE Cellular with IEEE 802.11 a/b/g/n/ac Wi-Fi Gateway

Spotlight

✚ Flexible Connectivity for Critical Applications

Ethernet, serial, DI/DO and Modbus bridging for connecting diverse field assets

Virtual COM allows for access, control, and management of a connected serial device

Ideal for M2M and industrial IoT applications

✚ Reliable and Uninterrupted Connection

Equipped with dual SIM cards for failover

Failover management for network reliability

With Gigabit Ethernet, build in redundancy protocol-VRRP and recovery mechanism continuous communications between remote devices and control center are safeguarded

✚ Comprehensive Data Security

IPSec, OpenVPN, PPTP, and L2TP VPN support up to 16 concurrent tunnels with max 100Mbps throughput (IPSec).

✚ Rugged Industrial Design

Features metal housing with fan-less cooling, IP30

Supports -30 to 70°C (-22 to 158°F) operating temperature

Redundant power inputs on terminal block connector

✚ IoT Cloud Connectivity

Leverage MQTT protocol

Overview

The EW200 is an intelligent industrial grade gateway that combines IEEE 802.11b/g/n/ac WLAN and 4G LTE cellular technologies designed for critical infrastructure and industrial applications. It offers flexible connectivity over cellular and Wireless LAN for harsh environments, giving operations and IT real-time awareness with remote monitoring. It allows up to 4 Ethernet device links and provides dual SIM cards for failover redundancy to ensure uninterrupted connectivity. The EW200 is a certified Microsoft Azure IoT Device.

Moreover, it delivers best-in-class multi path connectivity with Wireless, Ethernet, serial, and digital I/O to satisfy most applications. Global LTE options make it easy to get connected.

EW200 Series Industrial LTE Cellular Gateway

Frequency Bands

| Sku Code | 4G LTE | | 3G | 2G | Region |
	FDD LTE	TDD LTE	WCDMA	GSM/EDGE	
TA	B1(2100)/ 3(1800)/ 4(AWS)/ 5(850)/ 7(2600)/ 8(900)/ 28(700 APT)	B40(2300)	B1(2100)/ 2(1900)/ 5(850)/ 8(900)	B2(1900)/ 3(1800)/ 5(850)/ 8(900)	**Taiwan**
EUS	B1(2100)/ 3(1800)/ 5(850)/ 7(2600)/ 8(900)/ 20(800)	B38(TD 2600)/ 40(TDV 2300)/ 41(TD 2500)	B1/ B5/ B8	B3(1800)/ 8(900)	**EU, Vietnam, Thailand**

Specifications

➕ Cellular Interface

Standards

• Cellular Frequency Bands: (Please see order information for optional band)

• LTE Cat. 4: FDD-LTE, TDD-LTE, Transfer rate (max):

   LTE FDD: 150Mbps down; 50Mbps up

   LTE TDD: 130Mbps down; 35Mbps up

• 3G: WCDMA, Transfer rate (max): 42Mbps down; 5.76Mbps up)

• 2G: GSM/EDGE, Edge Transfer rate (max): 236.8Kbps down & up

Antenna connector

• 2 x SMA Female

SIM Slot

• 2

➕ WLAN Interface

WiFi

• 802.11 a/b/g/n/ac 2T2R (2.4G/5GHz selectable)

Frequency Band

• Europe CE 2.4GHz (13 channels) 5GHz (4 channels)

• America FCC 2.4GHz (11 channels) 5GHz (9 channels)

• Taiwan NCC 2.4GHz (11 channels) 5GHz (9 channels)

• Singapore iDA 2.4GHz (13 channels) 5GHz (9 channels)

• Japan TELEC & JATE 2.4GHz (13 channels)
5GHz (19 channels)

Encryption Security

• WEP, WPA 1/2-PAK & WPA 1/2 (8 x VAP/SSID)

Antenna Connector

• 2 x SMA Male

✚ Ethernet

Standards

• IEEE 802.3 10Base-T

• IEEE 802.3u 100BASE-TX/100BASE-FX

• IEEE 802.3ab 1000BASE-T

• IEEE 802.1x, Full duplex flow control

Ports

• 1 x RJ45 GE (WAN/LAN configurable) +4 x RJ45
GE

Physical Layer

• 10/100/1000Base-T

✚ Serial

Ports • 1 x RS485

✚ I/O

DI/DO

• 1 x Digital In ("Logic 0": 0-2V, "Logic 1": 5V-30V)

• 1 x Digital Out (Relay Mode, up to 30V/1A)

✚ USB

Standards

• USB 2.0

Ports

• 1 x USB Type A

+ Functions

WiFi LAN

• AP Router, WDS, WDS Hybrid Modes

VLAN

• Port-based, Tag-based VLAN

Port Forwarding

• Virtual Server/Computer, DMZ Host, PPTP/L2TP/IPSec Pass-through

Routing

• Static, Dynamic: RIP1/RIP2, OSPF, BGP

QoS

• Policy-based Bandwidth Control and Packet Flow Prioritization

VPN

• IPSec, OpenVPN, PPTP, L2TP, GRE

Firewall

• SPI Firewall with Stealth Mode, IPS

Event Engine/Event Handling

• Managing/Notifying Events: DI, DO, Modbus, SMS, Syslog, SNMP Trap, Email Alert, Reboot

Device Management Solution

• eVue

+ Field Communication

Virtual COM

• RFC2217, TCP Client, TCP Server, UDP

Modbus

• Gateway for Modbus TCP, Modbus RTU/ASCII Master/Slave Access

• Slave for Device Status/Information Access

Data Interchange

• MQTT Broker, MQTT Client

Data Logging

• Sniffer, Off-line/Full-time Proxy, Mixed modes

➕ Power

Input

• DC 12V-48V (Terminal Block)

Power Consumption

• 25W Max.

➕ Mechanical

Dimension

• 62 x 135 x 160mm (with DIN-Rail kit)

Weight

• 1.2Kg (2.64lb)

Installation

• DIN-Rail

➕ Environmen

Operating Temperature

• -30 to 70°C (-22 to 158°F)

Storage Temperature

• -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

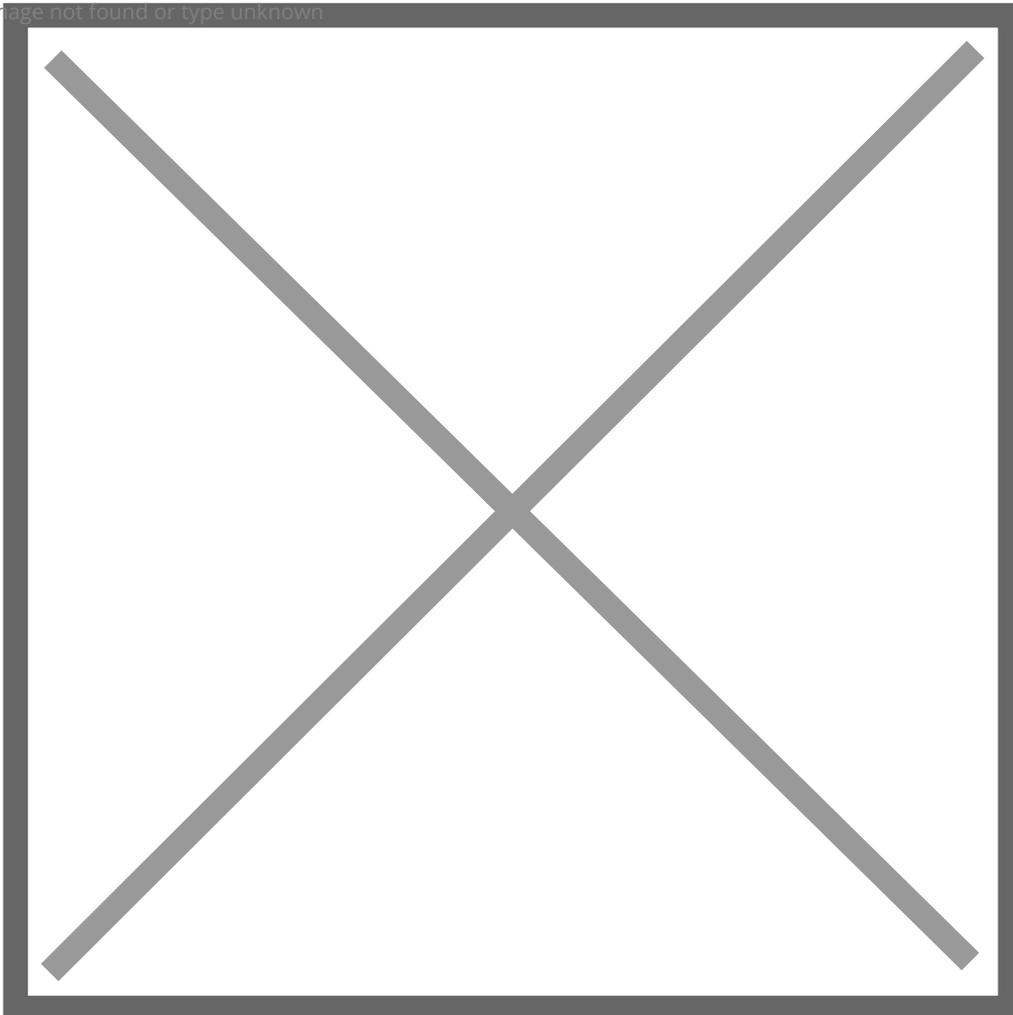• 5% to 95% (non-condensing)

✚ Regulatory Approval
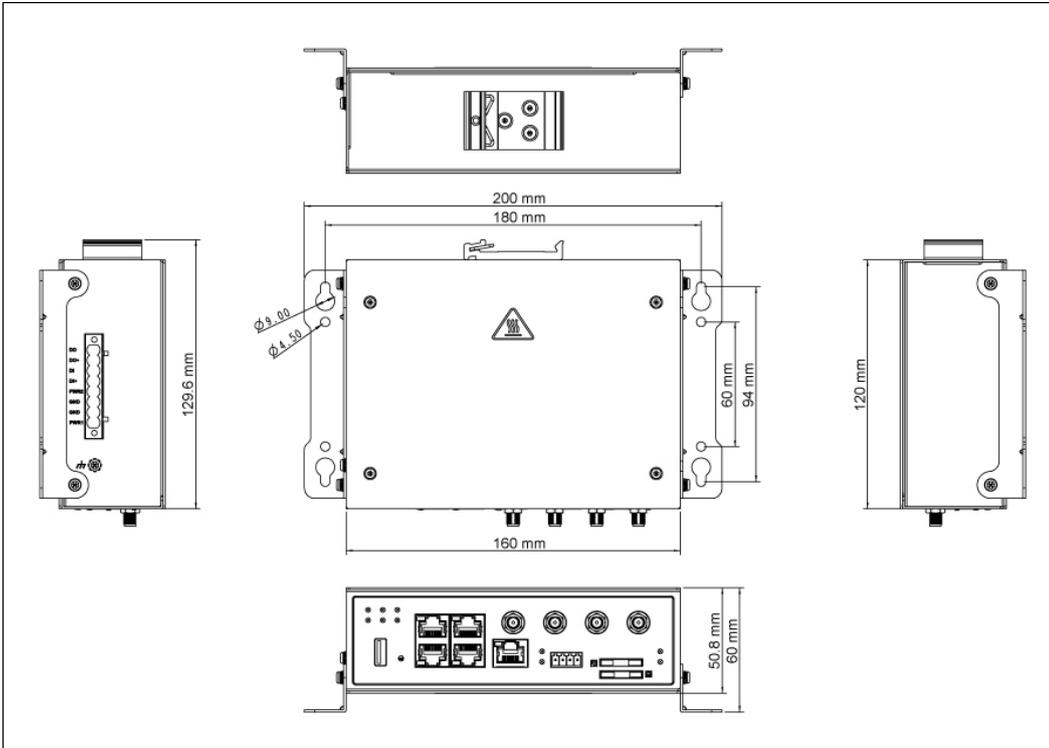
Safety

• EN 60950-1

• EN 62368-1: 2014

Emissions/Immunity

• CE/NCC BSMI/NBTC

Application

Dimensions

Ordering Info

➕ Model

EW200-EUS	Industrial LTE Cellular Gateway-EUROPE & SOUTH ASIA
EW200-TA	Industrial LTE Cellular Gateway-TAIWAN

➕ Optional Accessories

GWAP-2	Item	Amount	Frequency	Description	Note
	LTE	2	698-960/ 1710-2170/ 2300-2690MHz	Cellular Omni Antenna, N/female Jack Bulkhead	IP67
	Wi-Fi Antenna	2	2.4-2.5/ 4.9-5.9GHz	Wi-Fi Omni Antenna, N/female Jack	IP67
	Surge Protector	4	-	0-6GHz Surge Lightning Protector, N/female Jack Bulkhead To N/male Plug	IP67
	Bracket	4	-	-	-
	Wi-Fi Cable	2	-	SMA/female Plug (reverse) To N/male Plug with NFC200 Cable	-
	LTE Cable	2	-	SMA/male Plug To N/male Plug with NFC200 Cable	-

P/N.	Image	Item	Amount	Frequency	Description	Note
W96G-GY113HT46	Image not found	Cellular Antenna Base	1	-	This antenna base can be used on EW50 / EW200 / AiR PACE LTE antenna to extend 1.5M. Each model needs 2 antenna bases. This antenna base is not IP67.	-
W96G-11361Y50V	w96g-11361y50v Image not found or type unknown	Wall Mount Kit	1 set	-	1 set package includes 2 wall mount (Right side & Left side) & 4 pcs screws	-