

EW200 Series

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



Microsoft
Azure
Certified



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](#)

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

Frequency Bands

Sku Code	4G LTE		3G WCDMA	2G GSM/EDGE	Region
	FDD LTE	TDD LTE			
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) +4 x RJ45 GE

Physical Layer

- 10/100/1000Base-T

+ Serial

Ports

- 1 x RS232/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 (Q1, 2019)

+ 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

- OPC UA Server, 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 Temperatur

- -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity**
- 5% to 95% (non-condensing)

+ Regulatory Approval

Safety

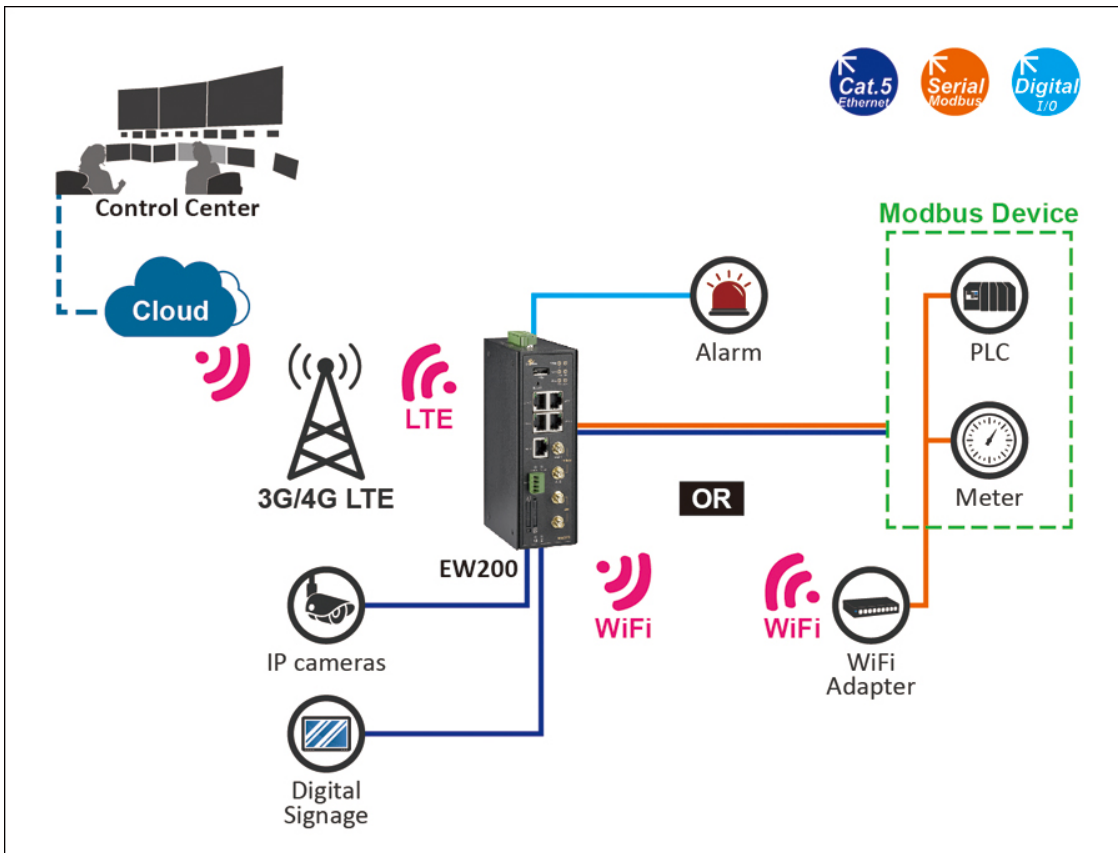
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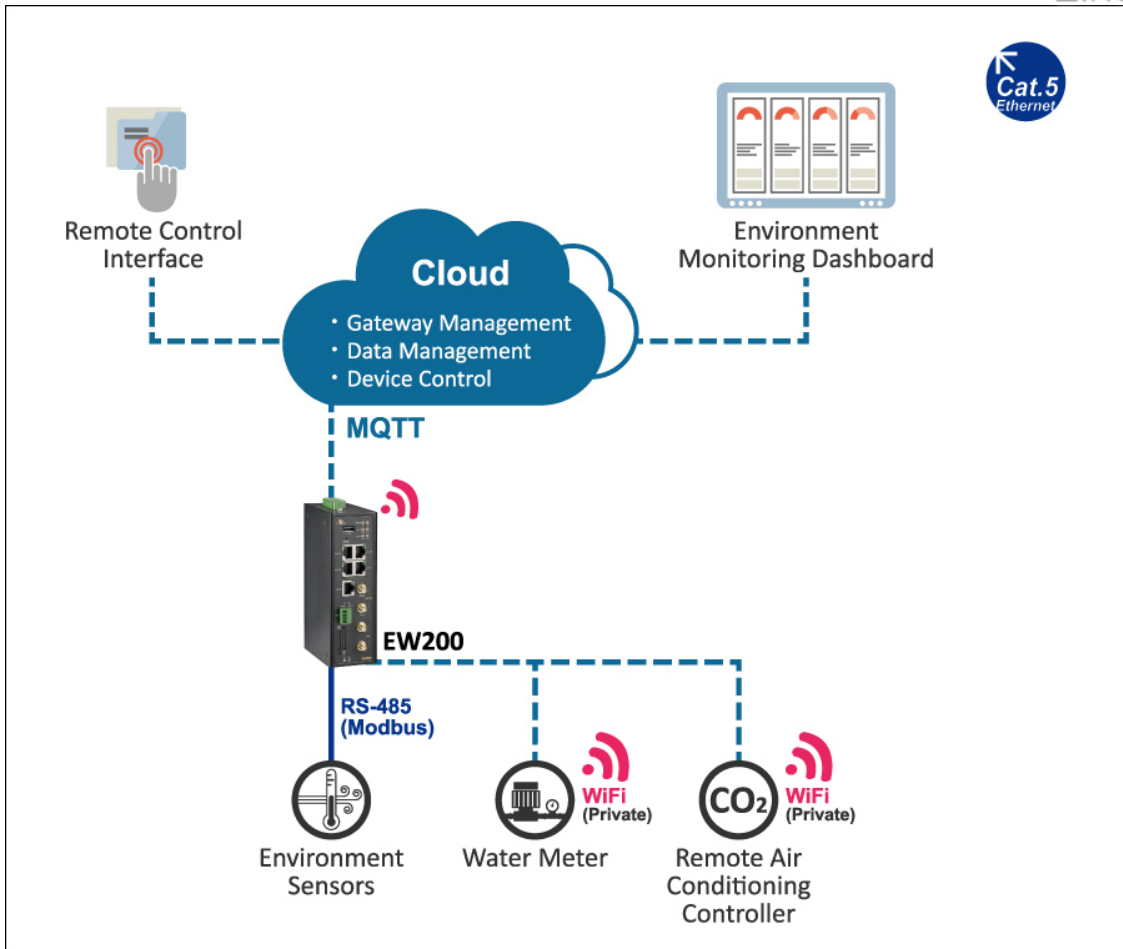
EN 62368-1: 2014

Emissions/Immunity

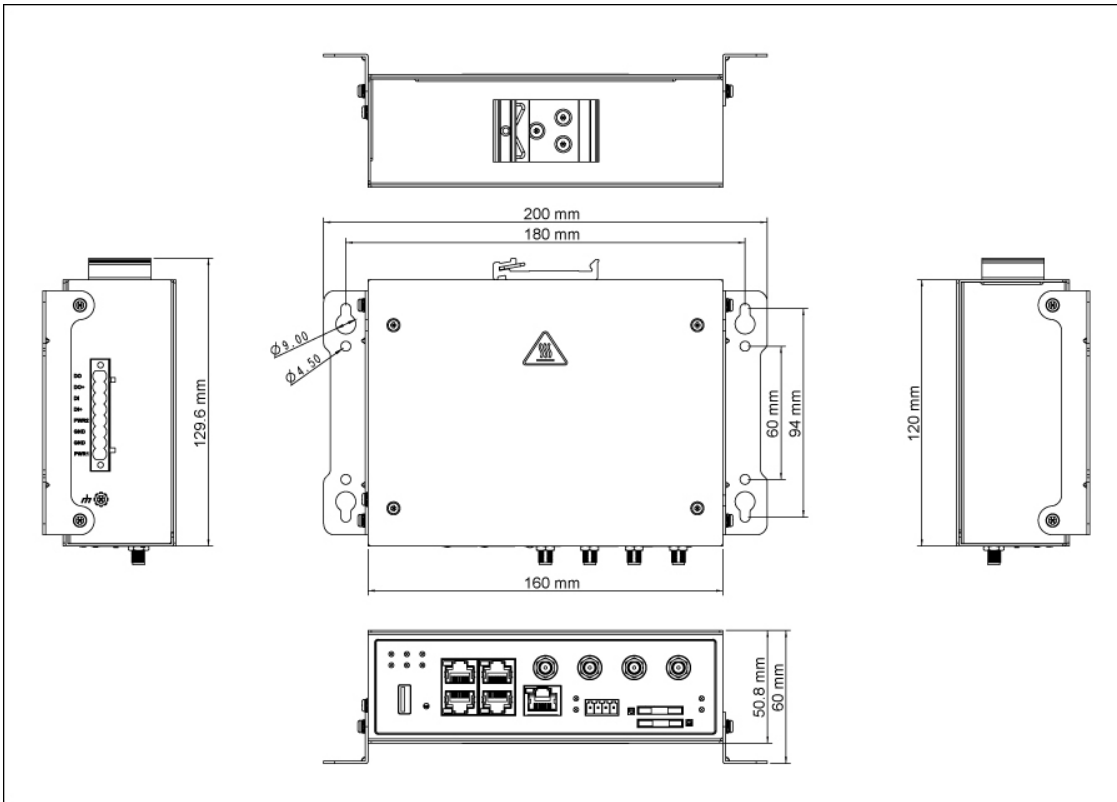
CE/NCC BSMI/NBTC

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-GY113H T46		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-11361Y 50V		Wall Mount Kit	1 set	-	1 set package includes 2 wall mount (Right side & Left side) & 4 pcs screws	-



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