EW200 Series

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

Safeguard Mission-Critical Networks





















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.

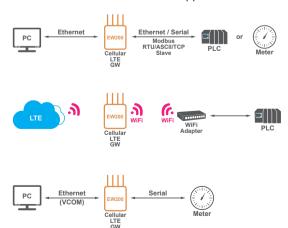
Moreover, it delivers best-in-class multi path connectivity with Wireless, Ethernet, serial, and digital I/O to satisfy most applications. Global LTE options make it easy to get connected.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Flexible Connectivity for Critical Applications

- Ethernet, serial, DI/DO and Modbus bridging for connecting diverse field assets
- $\,^\circ\,$ 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

Features

- Global HSPA+ and 4G LTE support and certified for the world's major carrier networks
- Integrated Modbus, MQTT server for advanced IoT applications
- Ethernet, serial, DI/DO and Modbus bridging for connection of diverse field assets
- Equip with a dual-SIM LTE module with failover function
- WiFi Compliance IEEE 802.11 a/b/g/n/ac 2T2R; Multiple(8) SSIDs for privilege group devices or users
- 4 x Gigabit Ethernet port with tag based and port based VLANs for easy control of groups and traffic
- Full protocols with NAT/Routing/IPv6, compatible with most IP networks
- IPSec, OpenVPN, PPTP, and L2TP VPN support for up to 16 concurrent tunnels with max 100Mbps throughput (IPSec)
- Firewall with SPI and IPS to prevent intrusion
- · SNMP and Telnet CLI for system management
- · QoS and Bandwidth management for optimal bandwidth usage
- Seamless power failover between wide-range redundant DC 12V-48V power inputs

Frequency Bands Region Code Optional

	4G LTE		3G	2G	Pagion	
Sku Code	FDD LTE	TDD LTE	WCDMA	GSM/EDGE	Region	
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)/ 7(2600)/8(900)/20(800)	B38(TD 2600)/ 40(TDV 2300)/ 41(TD 2500)	B1/B8	B3(1800)/8(900)	EU, Vietnam, Thailand	

Hardware 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
- 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

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

Physical Laver

• 10/100/1000BASE-T

Serial

Ports

• 1 x RS485

1/0

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

Port-based, Tag-based VLAN

Port Forwarding

 Virtual Server/Computer, DMZ Host, PPTP/L2TP/IPSec Passthrough

Routing

Static, Dynamic: RIP1/RIP2, OSPF, BGP

 Policy-based Bandwidth Control and Packet Flow Prioritization

• IPSec, OpenVPN, PPTP, L2TP, GRE

SPI Firewall with Stealth Mode, IPS

Event Engine/Event Handling

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

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

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

Environment

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 Approvals

Safety

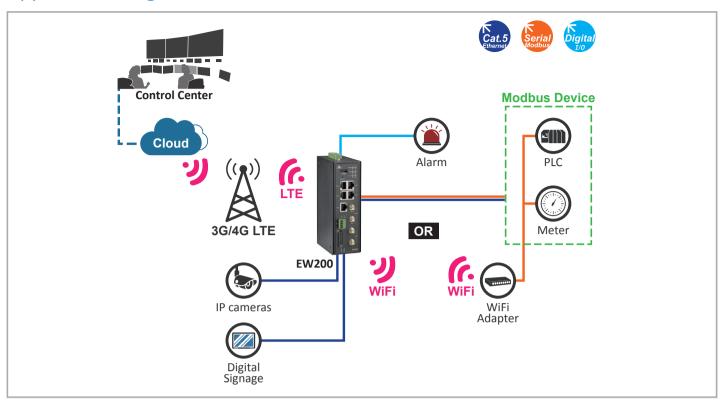
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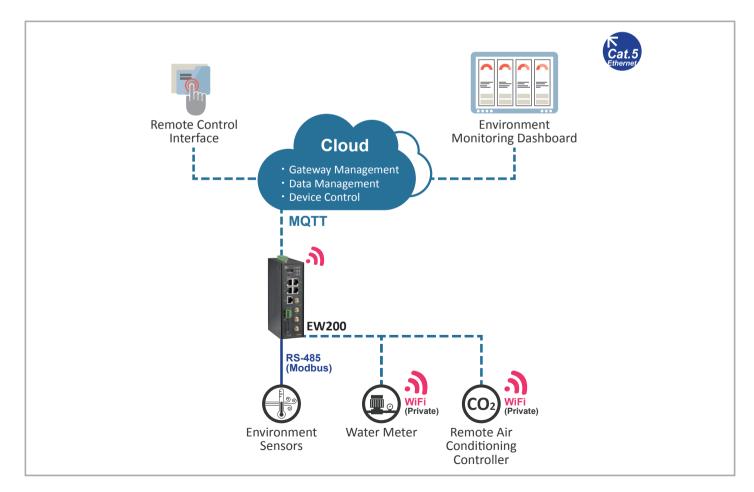
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Emissions/Immunity

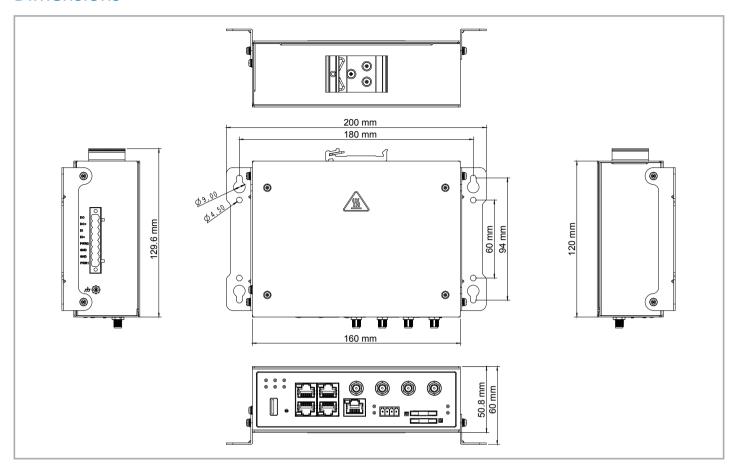
CE/NCC BSMI/NBTC

Application Diagram





Dimensions



Ordering Information

Model

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

Ontional Accessories

GWAP-2		Item	Amount	Frequency	Description	Note
6 6 6	LTE	2	698-960/ 1710-2170/ 2300-2690MH	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	Amou	unt Frequency	Description	Note
W96G-GY113HT46		Cellula Antenn Base		-	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		Wall Mount I	Kit 1 se	et –	1 set package includes 2 wall mount (Right side & Left side) & 4 pcs screws	_