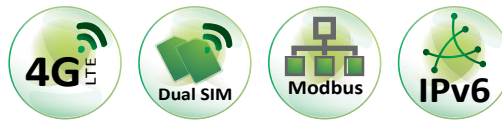


EW50 Series

Industrial LTE Cellular Gateway

Stay Connected 24-7, Reliable High-Speed Communications



Overview

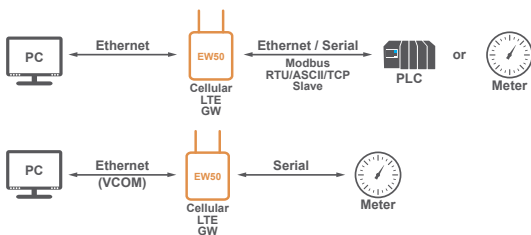
The EW50 is an intelligent industrial grade gateway designed for critical infrastructure and industrial applications. It provides reliable and secure connectivity designed for harsh environments, giving operations and IT real-time awareness with remote monitoring. Moreover, it delivers best-in-class 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

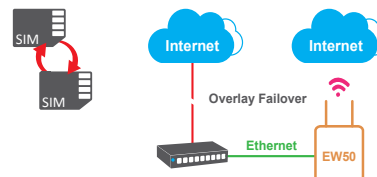
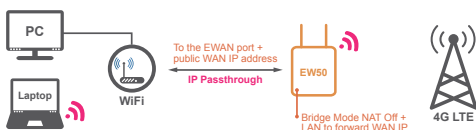
• Flexible Configurations with Reliable Connectivity

- Ethernet, serial, DI/DO and Modbus bridging for connecting diverse field assets
- Ideal for M2M and industrial IoT applications



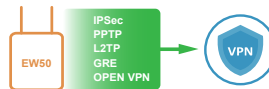
• Reliable and Uninterrupted Connection

- Equipped with dual SIM cards for failover
- Failover management for network reliability and uninterrupted uptime
- Always online 4G LTE internet connection/IP Passthrough Mode



• Comprehensive Data Security

- IPSec, OpenVPN, PPTP, and L2TP VPN support up to 16 concurrent tunnels with max 70Mbps throughput (IPSec)



• Rugged Industrial Design

- Features metal housing with fan-less cooling, IP30
- Supports operating temperature from -30 to 70°C (-22 to 158°F)

Features

- Global HSPA+ and 4G LTE support, and certified for the world's major carrier networks
- Ethernet, serial, DI/DO and Modbus bridging for connection of diverse field assets
- Equipped with a dual Micro-SIM LTE module with failover function
- 10/100/1000BASE-TX 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 70Mbps throughput (IPSec)
- Firewall with SPI and IPS to prevent intrusion
- SNMP and Telnet CLI for system management

Frequency Bands Region Code

| 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, Australia |
| 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, Singapore, Malaysia, Vietnam, Thailand |
| JP | B1(2100)/B3(1800)/ B8(900)/B18(800 Lower)/ B19(800 Upper)/B26 | B41(TD 2500) | B1(2100)/6(UMTS only)/ 8(900)/19(800 Upper) | — | Japan |

Hardware Specifications

Cellular Interface

Standards

- Cellular Frequency Bands: (Please check Frequency Band Regional Codes)
- 4G LTE: 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

Ethernet

Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3ab 1000BASE-T

Ports

- 2 x RJ45 GE

Physical Layer

- 10/100/1000Base-T

Serial

Ports

- 2 x RS-232/RS-485

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

Micro SD

Capacity

- Max. Storage of 64GB

Functions

VLAN

- Port-based, Tag-based VLAN

Port Forwarding

- Virtual Server/Computer (1-1), DMZ Host, PPTP/L2TP/IPSec Pass-through

Routing

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

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 Logging

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

Power

Input

- DC 9V-36V

Power consumption

- 7.0W Max.

Mechanical

Dimension

- 31 x 99 x 130.6mm (w/o mounting brackets)

Weight

- 0.9Kg (1.98lb)

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

EN 60950-1

EN 62368-1: 2014

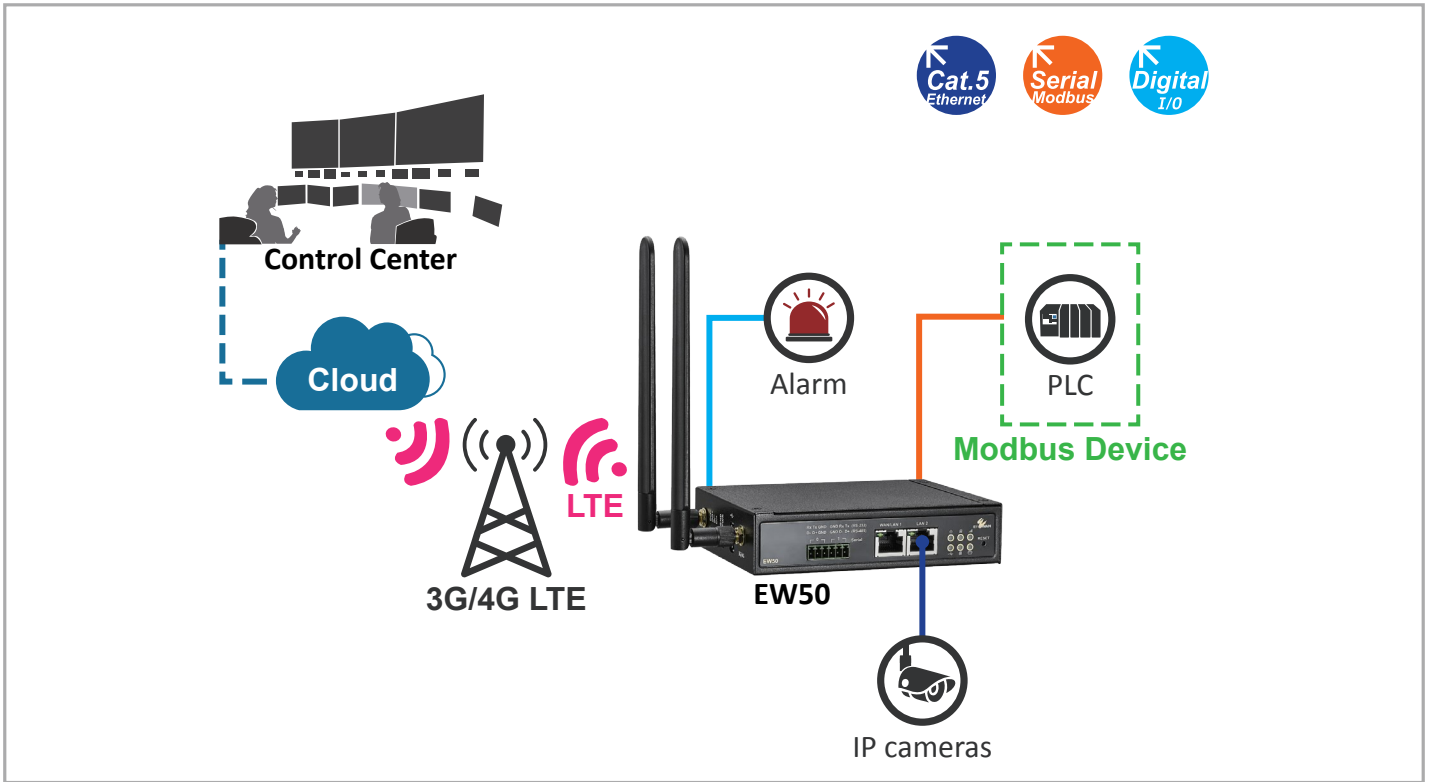
Emissions/Immunity

EW50-TA FCC/NCC/RCM

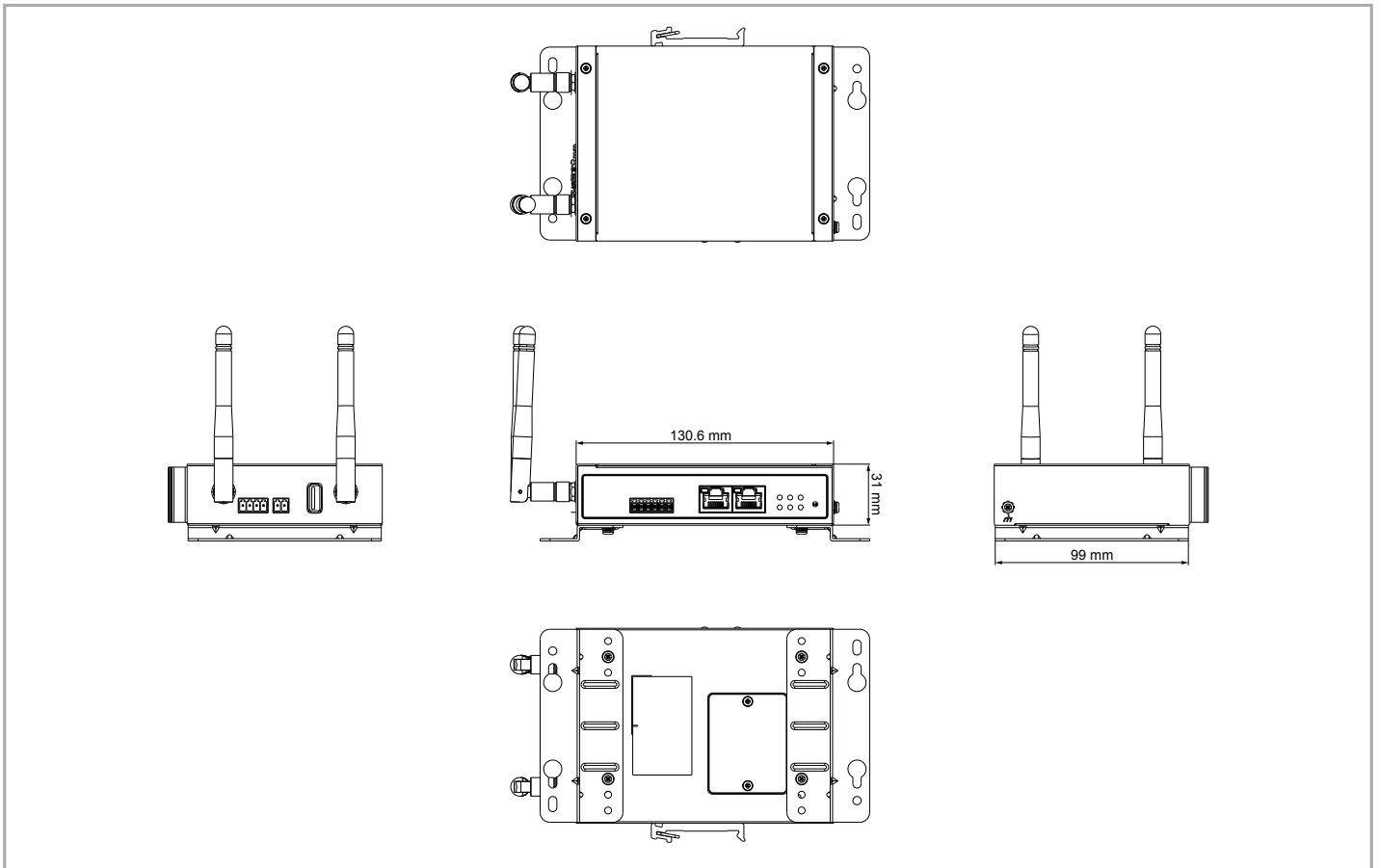
EW50-EUS FCC/CE/NBTC

EW50-JP VCCI/JATE

Application Diagram



Dimensions




Ordering Information

Model

| | |
|-----------------|---|
| EW50-EUS | Industrial LTE Cellular Gateway-EUROPE & SOUTH ASIA |
| EW50-TA | Industrial LTE Cellular Gateway-TAIWAN & AUSTRALIA |
| EW50-JP | Industrial LTE Cellular Gateway-JAPAN |

Enclosed Accessories

| GWAP-1 | Item | Amount | Frequency | Description | Note |
|---|-----------------|---------------|--|---|-------------|
|  | LTE | 2 | 698-960/ 1710-2170/ 2300-2690MHz | Cellular Omni Antenna, N/female Jack Bulkhead | IP67 |
| | Surge Protector | 2 | — | 0-6GHz Surge Lightning Protector, N/female Jack Bulkhead To N/male Plug | IP67 |
| | Bracket | 2 | — | — | — |
| | LTE Cable | 2 | — | SMA/male Plug To N/male Plug with NFC200 Cable | — |