

# EW50 Series

Industrial LTE Cellular Gateway



## 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)

## Overview

The EW50 is an intelligent industrial grade gateway designed for critical infrastructure and industrial applications. It provides reliable and secure remote 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.

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## Frequency Bands

4G LTE	3G	2G	Region
Sku Code FDD LTE TDD LTE	WCDMA	GSM/EDGE	
<b>TA</b> B1(2100)/ 3(1800)/ 4(AWS)/ 5(850)/ 7(2600)/ 8(900)/ 28(700 APT)	B1(2100)/ 2(1900)/ 5(850)/ 8(900)	B2(1900)/ 3(1800)/ 5(850)/ 8(900)	<b>Taiwan, Australia</b>
<b>EUS</b> 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)	<b>EU, Singapore, Malaysia, Vietnam, Thailand, Turkey, Philippines, India, Indonesia, South Korea</b>
<b>JP</b> 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)	<b>Japan</b>

## Specifications

### + Cellular Interface

#### Standards

- Cellular Frequency Bands: (Please check Frequency Bands Region Codes)
- 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

### + 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

### + Cloud Development Platform

Support Microsoft Azure

### + 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

#### Data Interchange

- MQTT Broker, MQTT Client

### + 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%

### + Regulatory Approvals

#### Safety

- EN 60950-1
- EN 62368-1: 2014

#### Emissions/Immunity

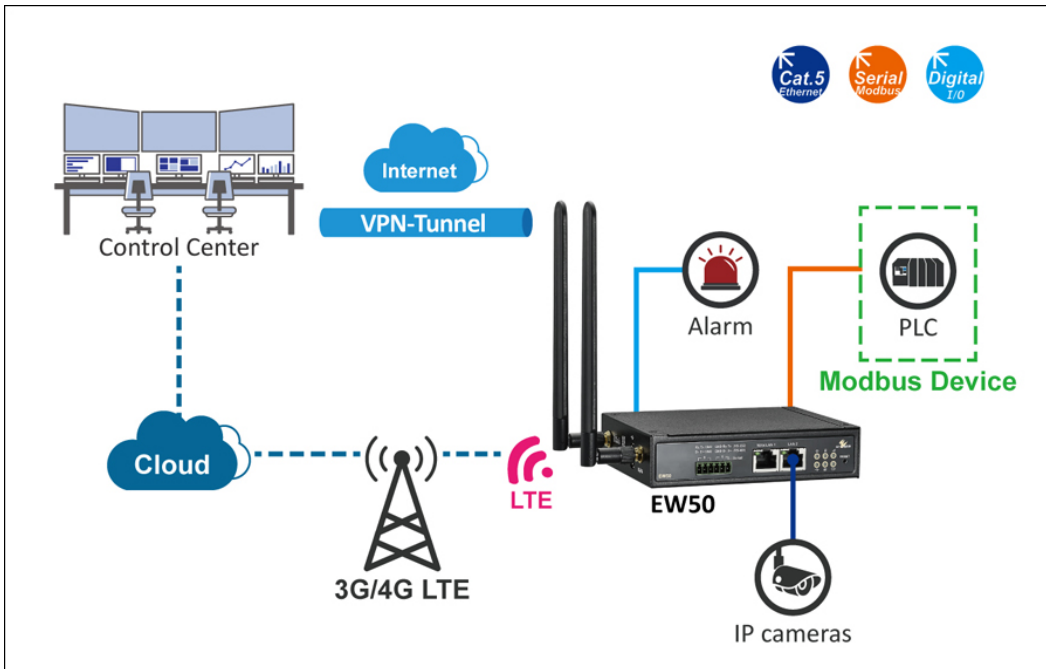
- EW50-TA FCC/NCC/RCM
- EW50-EUS FCC/CE/NBTC/NTC/KC\*/SDPPI\*\*
- EW50-JP VCCI/JATE

#### Note:

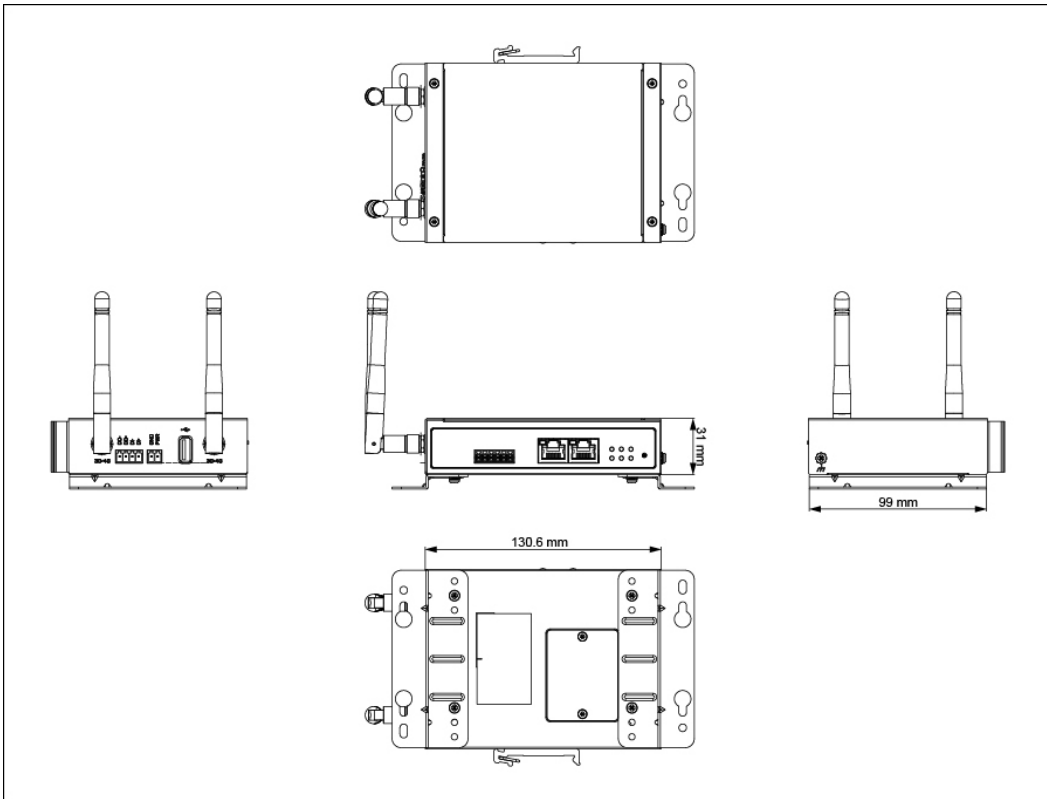
KC\*: EW50 doesn't support SKT SIM card, suggest

to use Global SIM card or Non-SKT SIM Card.  
SDPPI\*\* : Indonesia Radio Type Approval  
78410/SDPPI/2021  
13696

## Application



## Dimensions




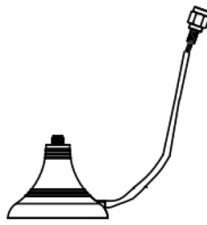

## Ordering Info

### + 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

### + Optional 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	-

P/N.	Image	Item	Amount	Frequency	Description	Note
W96G-GY113HT46		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-11361Y50S		Wall Mount Kit	1 set	-	1 set package includes 2 wall mount (Right side & Left side) & 4 pcs screws	-



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