

# EW50 Series

Industrial LTE Cellular Gateway



## 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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## 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)

## 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

### + 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

## + 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

## + 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

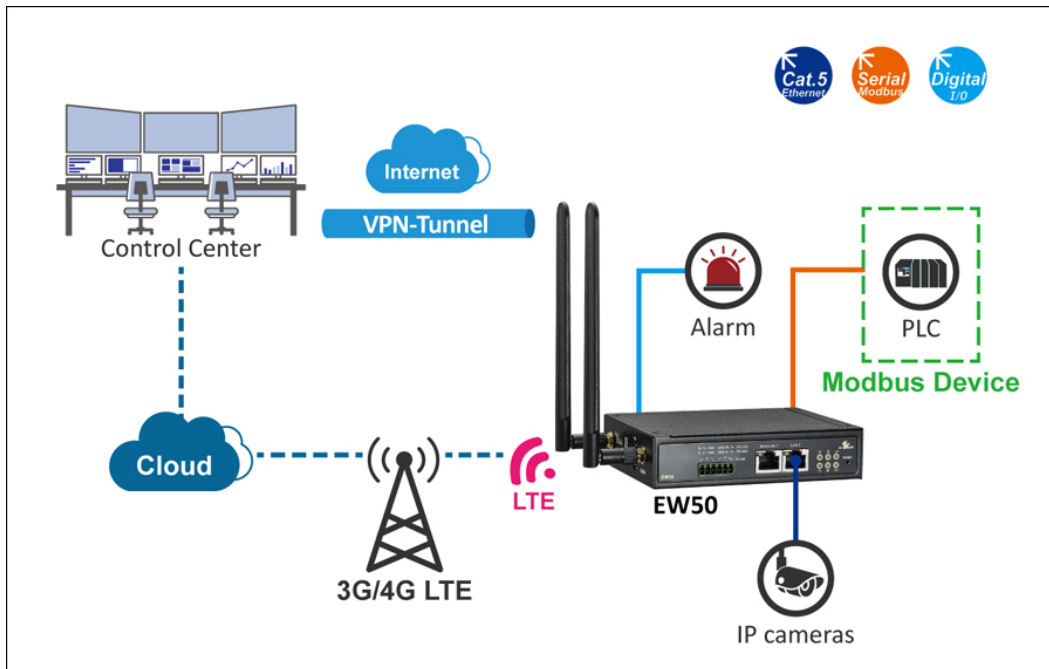
- EW50-TA FCC/NCC/RCM
- EW50-EUS FCC/CE/NBTC/NTC/KC\*/SDPPI\*\*
- EW50-JP VCCI/JATE

### **Note:**

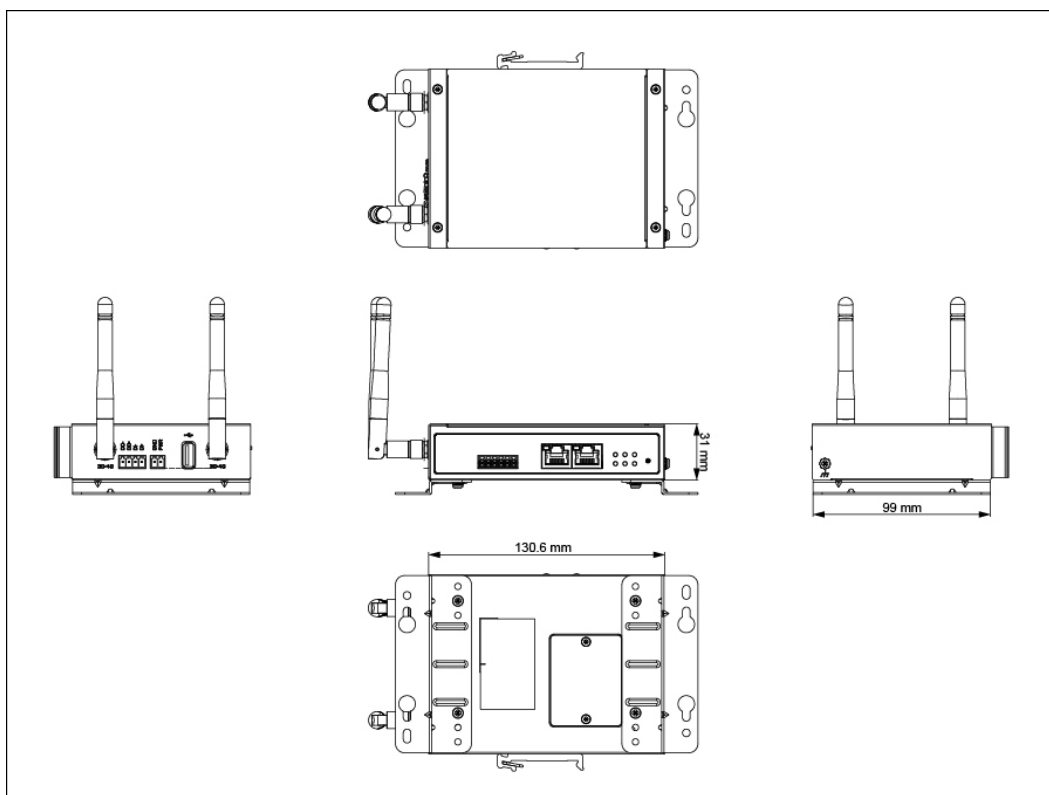
KC\*: EW50 doesn't support SKT SIM card, suggest to use Global SIM card or Non-SKT SIM Card.

SDPPI\*\*: Indonesia Radio Type Approval 78410/SDPPI/2021 13696

## Application



## Dimensions



## Frequency Bands


Sku Code	4G LTE		3G	2G	Region
	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)	B40(2300)	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, Vietnam, Thailand, Philippines, Indonesia, South Korea, UAE</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>


## Ordering Info

### + Model

<b>EW50-EUS</b>	Industrial LTE Cellular Gateway-EUROPE & SOUTH ASIA
<b>EW50-TA</b>	Industrial LTE Cellular Gateway-TAIWAN & AUSTRALIA
<b>EW50-JP</b>	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
<b>W96G-T00B-A1A3</b>		Magnetic Cellular Antenna Base	1	-	This magnetic antenna base can be used on EW50 / EW200 series. Cable length is 2M.Each model needs 2 antenna bases. Not IP67.

W96G-11361Y50S



Wall Mount Kit

1 set

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1 set package includes  
2 wall mount (Right  
side & Left side) & 4  
pcs screws



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