

# 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)

## Feature

- » 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
- » 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

Sku Code	4G LTE FDD LTE	TDD LTE	3G WCDMA	2G GSM/EDGE	Region
<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, 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

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### + 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

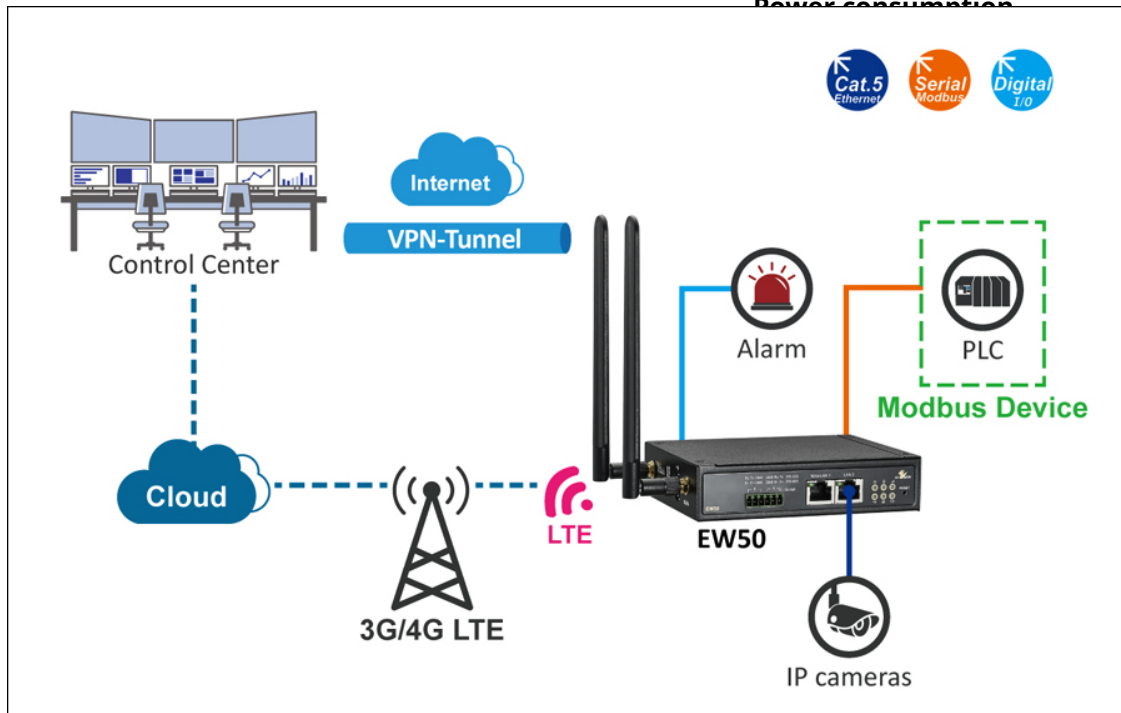
**Data Logging**

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

**Data Interchange**

MQTT Broker, MQTT Client

**Application**



ting brackets)

+ **Power**

**Input**

DC 9V-36V

Power consumption

EN 62368-1: 2014

**Emissions/Immunity**

EW50-TA FCC/NCC/RCM

EW50-EUS FCC/CE/NBTC/NTC/KC\*/SDPPI\*\*TDRA

EW50-JP VCCI/JATE

**Note:**

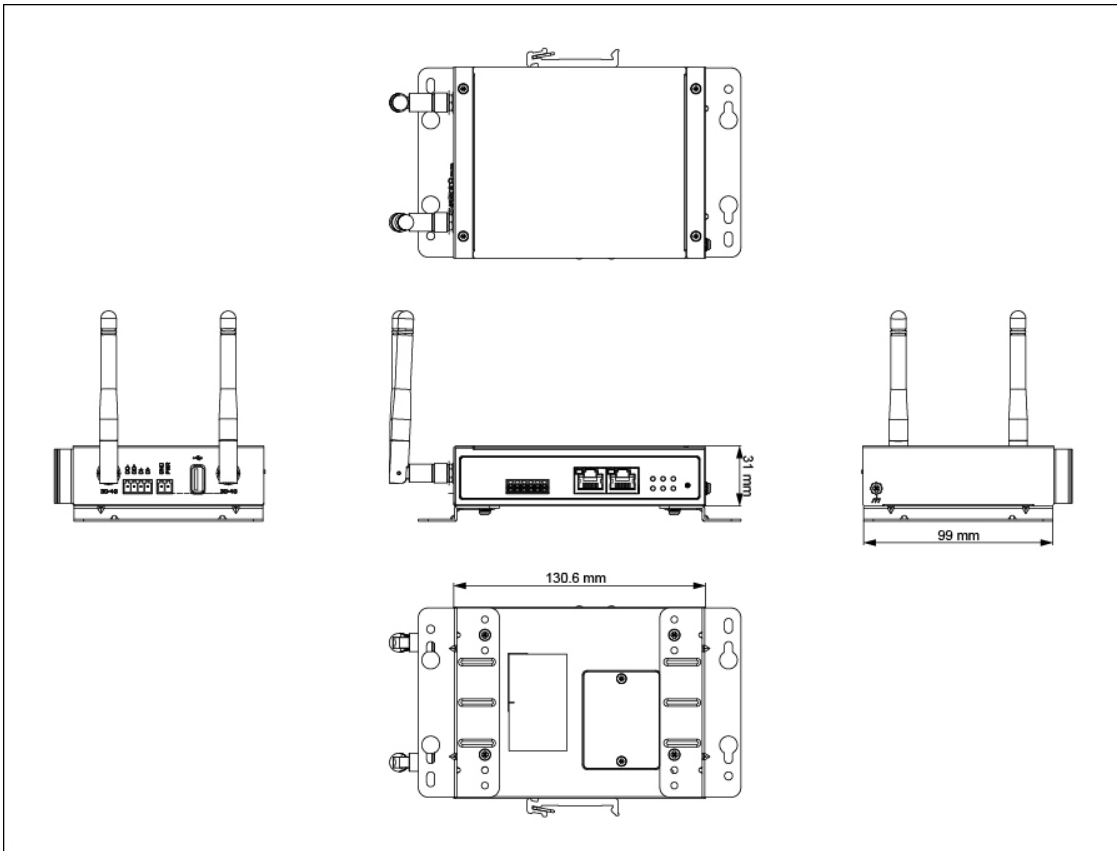
KC\*: EW50 doesn't support SKT SIM card, suggest to use Global SIM card or Non-SKT SIM Card.

SDPPI\*\*: Indonesia Radio Type Approval

78410/SDPPI/2021

13696

## Dimensions




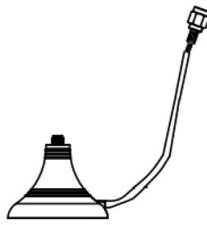

## Ordering Info

### + 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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