

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.

[Industrial LTE Cellular Gateway | Promotion Page EW50 Series](#)

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

+ Comprehensive Data Security

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

+ 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

+ 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:

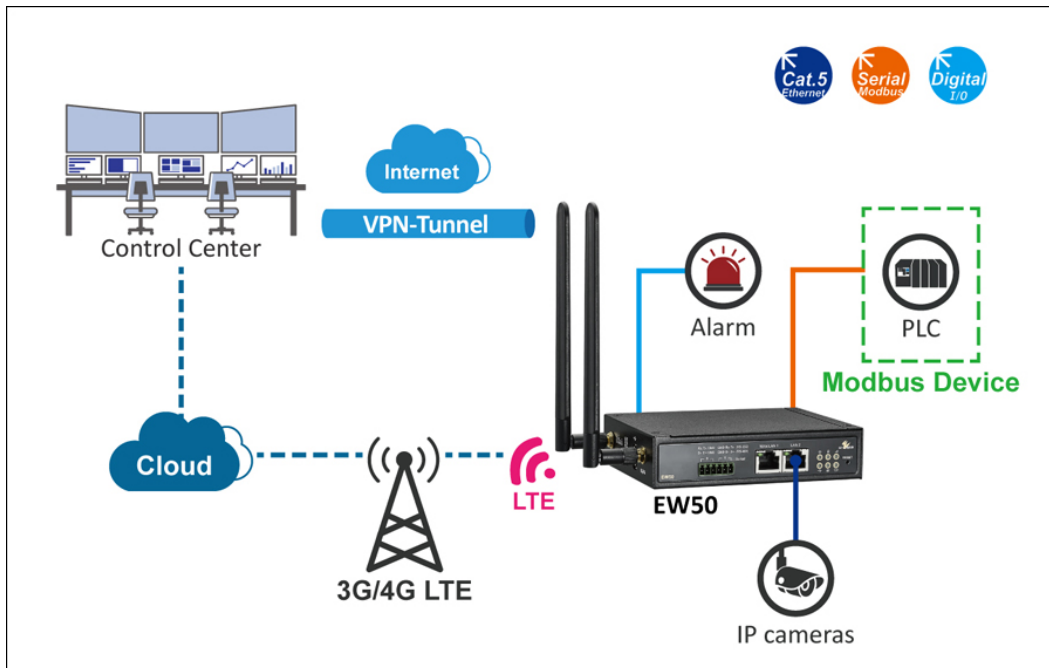
KC*: EW50 doesn't support SKT SIM card, suggest
to use Global SIM card or Non-SKT SIM Card.

SDPPI**: Indonesia Radio Type Approval

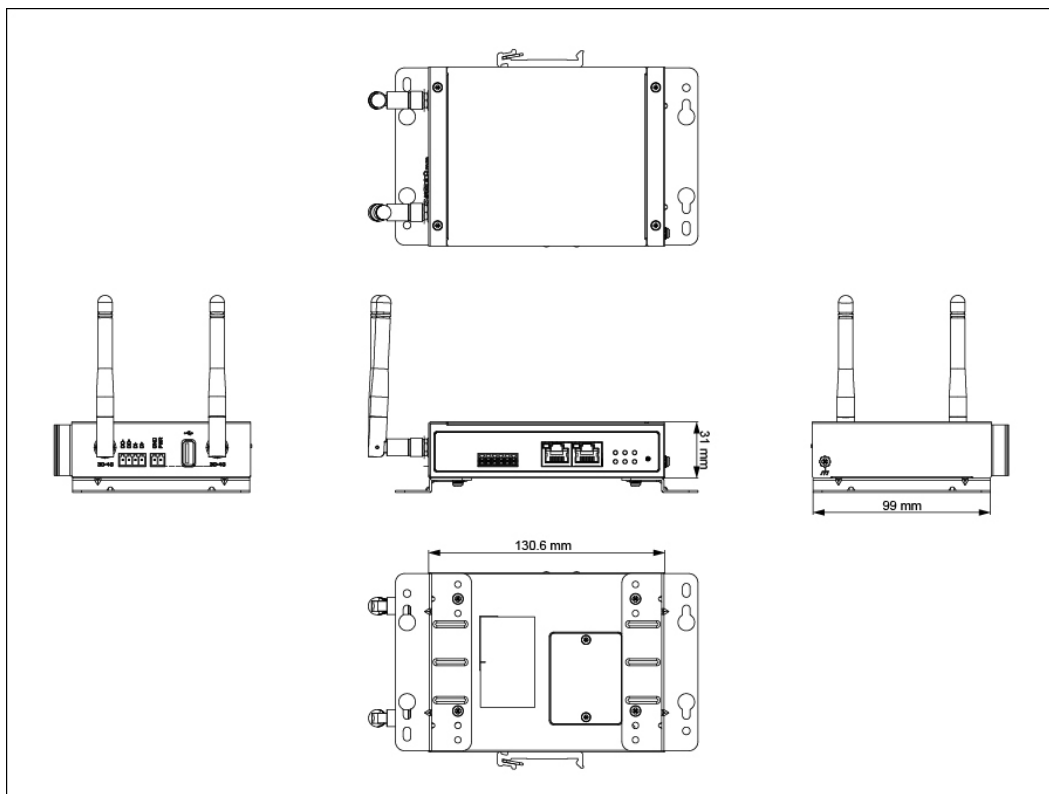
78410/SDPPI/2021

13696

Application



Dimensions



Frequency Bands


Sku Code	4G LTE		3G	2G	Region
	FDD LTE	TDD LTE	WCDMA	GSM/EDGE	
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) / 5(850) /7(2600) / 8(900) / 20(800)	B38(TD 2600)/ 40(TDV 2300)/ 41(TD 2500)	B1/ B5/ B8	B3(1800)/ 8(900)	EU, Singapore, Malaysia, Vietnam, Thailand, Turkey, Philippines, India, Indonesia, South Korea, UAE
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



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
W96G-T00B-A1A3		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	-	1 set package includes 2 wall mount (Right side & Left side) & 4 pcs screws

