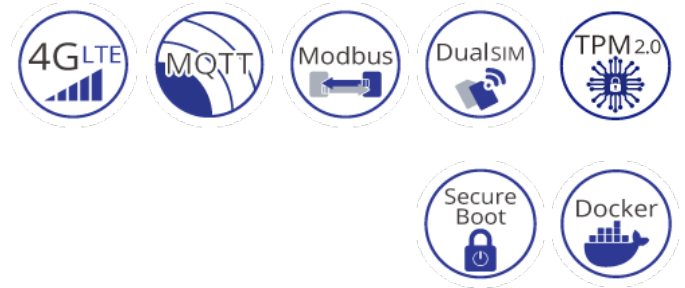


## EW50-V Series

Industrial LTE Cellular Gateway - Your Secure and Reliable Next-Gen IIoT Cellular Gateway



## Overview

The EW50-V is the latest addition to the popular EW50 series. It provides reliable and secure connectivity designed for harsh environments, giving operations and IT real-time awareness with remote monitoring. Moreover, The EW50-V is a versatile 4G LTE smart gateway with 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

### + Comprehensive Data Security

IPSec and OpenVPN support up to 10 concurrent tunnels

### + Remote Control

EtherWAN Remote Device Manager **"Pave2Edge"** for deployment and remote control

### + Reliable and Uninterrupted Connection

EtherWAN **"Garantie Link"** to keep network connection always on  
Equipped with dual SIM cards for failover  
Failover management for network reliability and uninterrupted uptime  
On online 4G LTE internet connection

### + Rugged Industrial Design

Features metal housing with fan-less cooling, IP30  
Supports -30 to 75°C (-22 to 167°F) operating temperature

### + 'Docker' Containerization Supported

The most popular containerization platforms that allow you to develop, deploy, and run applications inside containers.

### + Secure Boot + TPM 2.0

Secure boot protects device against any attempt to use malware.

Trusted Platform Module (TPM) is to provide hardware-based, security-related functions that helps you with actions such as generating, storing, and limiting the use of cryptographic keys.

## 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

#### Antenna connector

2 x SMA Female

#### SIM Slot

2 Nano SIM

### + Field Communication

#### COM Port Transparent

RFC2217, TCP Client

#### Modbus

Gateway for Modbus TCP, Modbus RTU

#### Data Interchange

MQTT and Cloud

#### Data Logging

Monitoring Mode and Proxy mode

### + Cloud Development Platform

#### Platform

Support Microsoft Azure / AWS

### + 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-485

### + Power

#### Input

DC 12 - 24V

#### Power consumption

8.5W Max.

### + Mechanical

#### Casing

Metal

#### Dimension

130 x 40 x 106 mm (w/o mounting brackets)

#### Weight

0.9Kg (1.98lb)

#### Installation

DIN-Rail

## + I/O Connectors

### Ports

1 x Digital In ("Logic 0": 0-2V, "Logic 1": 5-30V)  
1 X Digital Out (None-Relay Output, 30V/1A,  
Sink Type , Normal Open)

## + SD Card

### SD Card

Micro SD card x 1 (Up to 64GB)

## + Functions

### Port Forwarding

Virtual Server, Virtual Computer, DMZ

### VPN

IPSec, OpenVPN

### Event Engine/ Event Handling

Events: DI, DO, Modbus, SMS, Reboot, LINE  
Notification

### RESTful API

Easy to acquire data or remote configure settings

### F/W Upgrade

By OTA (Over-the-Air)

## + Environment Limits

### 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

IEC 62368-1: 2018

### Emissions/Immunity

EW50-VEA CE/ TDRA / IMDA\*/NTBC\*/NTC\*

EW50-VT NCC BSMI

EW50-VUS

FCC

Cellular: PTCRB/AT&T/T-Mobile

EW50-VJP JATE

\* Certificated in process from Q1 2025

### Standard Accessory

4G LTE antenna x 2

GPS antenna x 1 (US model only)

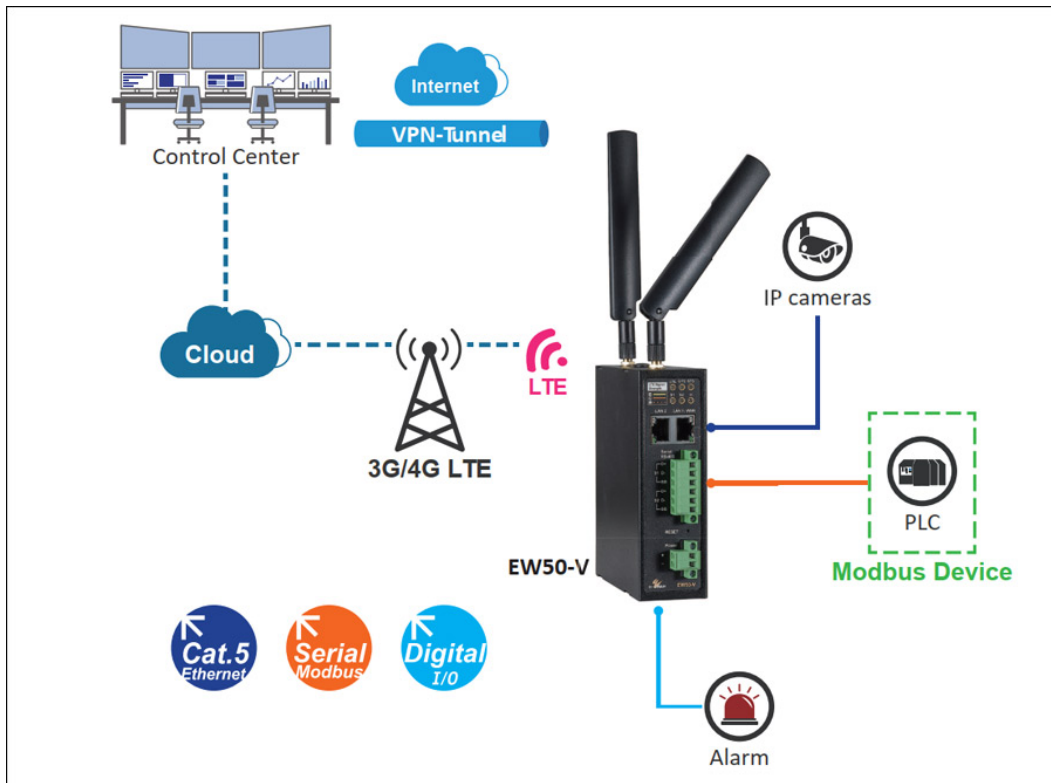
DIN Rail kit x 1 + 2 screws

6 PIN terminal block x 1

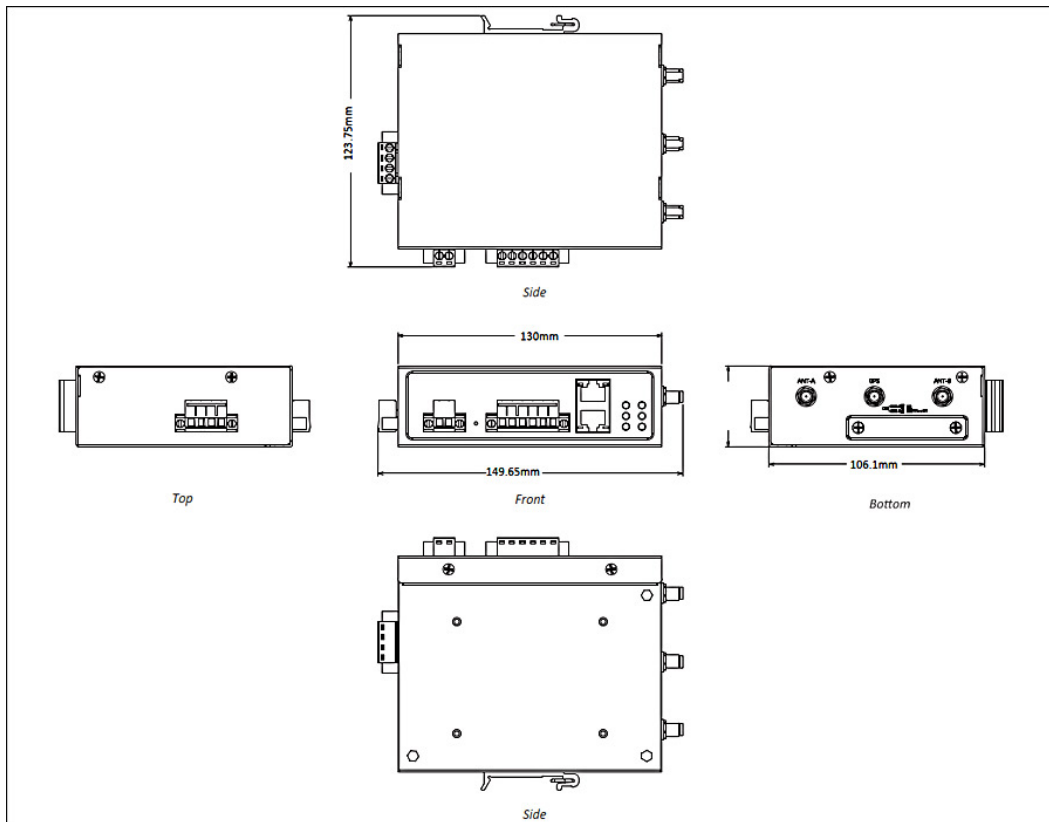
4 PIN terminal block x 1

2 PIN terminal block x 1

# Application



## Dimensions



## Frequency Bands

Sku Code	4G LTE		3G	Region
	FDD LTE	TDD LTE	WCDMA	
EA	B1 (2100) / 3 (1800) / 5 (850) / 7 (2600) / 8 (900) / B20 (800)	B38 (2600) / B40 (2300) / B41(2500)	/B41(2500) / B1(2100) / 5 (850) / 8 (900)	EU, APAC
US	B2 (1900) / B4 (2100) / B5 (850) / B13 (700) / B14 (700) / B66 (2100) / B71 (600)	B40(2300)	B2 (1900) / B4 (2100) / B5 (850)	USA
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
VT	B1(2100) / B2(1900) / B3 (1800) / B4(2100) / B5 (850) / B7 (2600) / B8 (900) / B12 (700) / B13 (700) / B18 (850) / B19 (850) / B20 (800) / B26 (850) / B28 (700) / B66 (2100)	B38 (2600) / B40 (2300) / B41 (2500)		Taiwan

## Ordering Info

### + Model

<b>EW50-VEA</b>	Industrial LTE Cellular Gateway-EU & APAC
<b>EW50-VUS</b>	Industrial LTE Cellular Gateway-USA
<b>EW50-VJP</b>	Industrial LTE Cellular Gateway-Japan
<b>EW50-VT</b>	Industrial LTE Cellular Gateway-Taiwan

### + 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	-

Image	P/N.	Item	Amount	Frequency	Description	Note
	W96G-T00B-A1A3	Magnetic Cellular Antenna Base	1	-	This magnetic antenna base can be used on EW50 / EW50-V / EW200 series. Cable length is 2M.Each model needs 2 antenna bases.	Not IP67

### + Tune-up Power

Technologies	Frequency range (MHz)	Max. Transmit Power	Tune-Up Power Tolerance
WCDMA Band I	1920-1980 MHz	24dBm	+1/-3dB
WCDMA Band VIII	880-915 MHz	24dBm	+1/-3dB
LTE Band 1	1920-1980 MHz	23dBm	±2dB
LTE Band 7	2500-2570 MHz	23dBm	±2dB
LTE Band 8	880-915 MHz	23dBm	±2dB
LTE Band 20	832-862 MHz	23dBm	±2dB
LTE Band 38	2570-2620 MHz	23dBm	±2dB

LTE Band 40

2300-2400 MHz

23dBm

±2dB

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