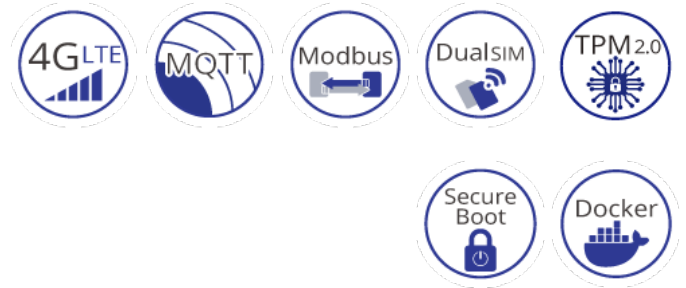


## EW50-V 系列

工業級 LTE Cellular 行動通訊閘道器



### 產品介紹

益網科技全新推出的 EW50-V 工業 LTE 行動閘道器，專為現代工業環境中的高效穩定連接需求而設計，提供領先的 4G LTE 解決方案，可應用於工業物聯網管理、遠程操作、電動車充電站，智慧交通科技執法...等。該閘道器有效解決傳統網路不穩定帶來的停機風險，確保業務運營穩定，並助力企業實現工業 4.0 數位轉型。EW50-V 還支援 Docker 容器技術，使應用程式的部署、管理和更新更加靈活高效，簡化數據處理流程，提升系統可擴展性與維護性，推動企業智能化生產與自動化進程，進一步提高生產效率和創新能力。

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### + 多元介面彈性搭配

可連接各種領域的乙太網路、序列、DI/DO 和 Modbus 橋接設備  
完美應用於M2M(機器對機器) 及IIoT(工業物聯網)應用架構

### + 完善的資訊傳輸安全

支援IPSec與OpenVPN,提供VPN安全連接保護  
同時可建立10個安全通道

### + 可靠、不間斷的傳輸品質

益網的**Garantie Link**" 致力於追求網路通訊穩定順暢  
故障切換功能的雙 Nano-SIM機制設計，支援行動傳輸備援  
Fail over管理機制確保網路穩定可靠度  
On online 4G LTE internet connection

### + 工業等級設計

IP30、無風扇、金屬外殼設計  
支援-30到70°C(-22 至 158°F)的工作溫度

### + 支援Docker / Container容器運用協作

可運用最廣泛運用的容器化平台，可讓您在容器內開發、部署和運行應用程式。

### + Secure Boot + TPM 2.0

具資安性考量的整體設計, 系統以安全性啟動機制可保護裝置免受任何使用惡意軟體的嘗試。  
可信平台模組 (TPM) 提供基於硬體的安全相關功能，可協助您執行產生、儲存和限制加密金鑰的使用等操作。

### + 遠端控制

益網的IoT設備管理工具Pave2Edge可支援EW50-V系列可完成地端部署, 遠端設定變更, 與FW更新

## 產品規格

### + 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)

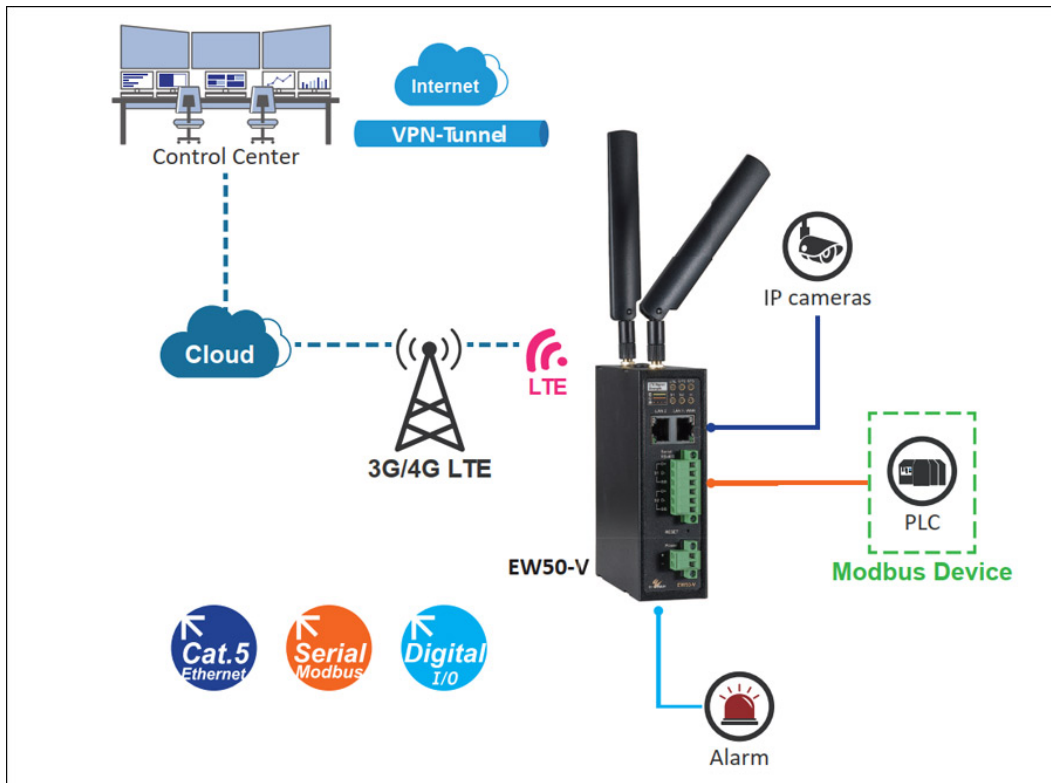
DIN Rail kit x 1 + 2 screws

6 PIN terminal block x 1

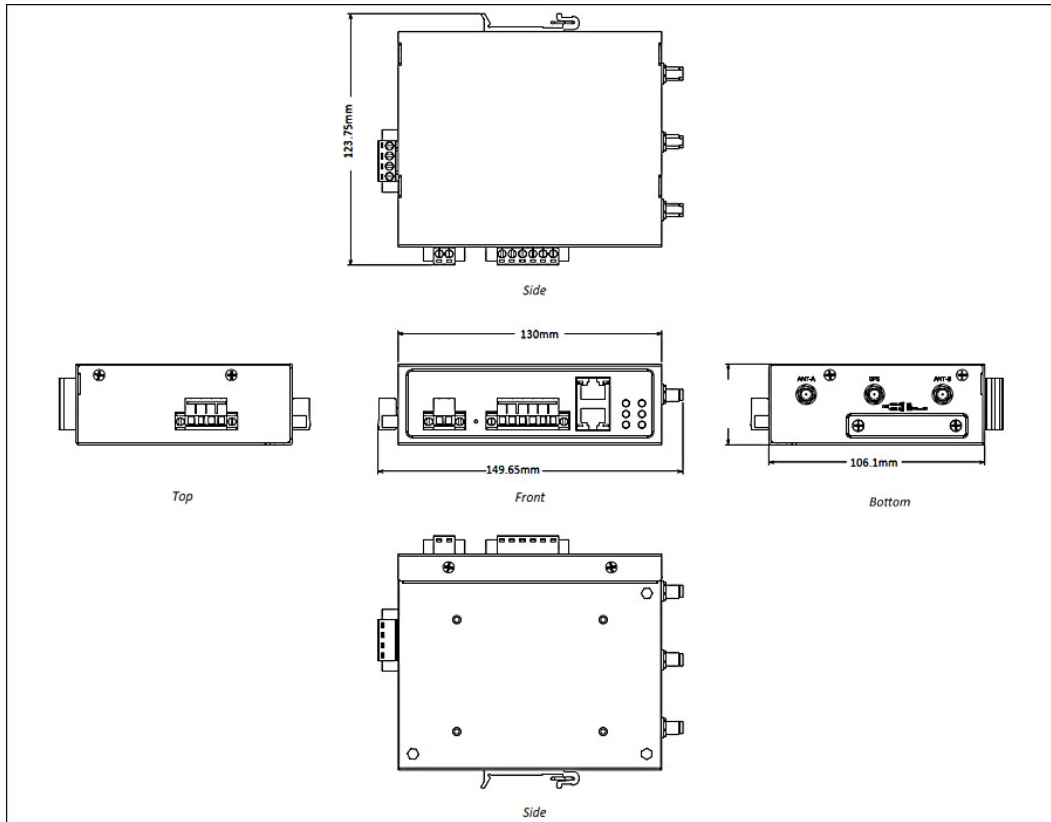
4 PIN terminal block x 1

2 PIN terminal block x 1

## 產品應用圖



## 產品尺寸圖



## 頻率段

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

## 訂購型號

### + 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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