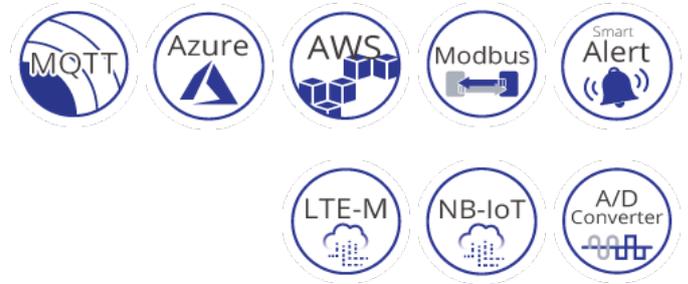


## EDGE 2

工業級 LTE-M/NB-IoT資料擷取傳輸器



## 產品介紹

益網科技EDGE 2 物聯網設備，透過無線 LPWA 解決方案，可以分別將LTE NB-IoT/Cat-M1 部署在地端設備上，讓使用者用最簡單的方式提高物聯網專案的部署速度，滿足物聯網架構下的無線監控需求。

EDGE 2 只需基本設定，即可快速的將既有的感應器 / 串列設備連接到 NB-IoT/Cat-M1 網路。

EtherWAN — "When Connectivity is Crucial."



# 影片



## 產品亮點

### + 物聯網雲端連結

採用 MQTT 協定  
整合及串聯 AWS 和 Azure 雲端服務  
多樣性的 I/O 模組，提供設備整合時的最大彈性

### + 可靠的傳輸品質

可提供上千筆資料儲存（16MB 資料儲存空間）；  
上行資料傳輸排程  
整合 10 位元 A/D 轉換器，快速將類比信號轉換為  
數位資料  
VDC 供電時可遠端控制（DO 輸出和 Modbus 控制  
序列埠支援 Modbus RTU 協同

### + 智慧資訊處理

感應資料可設定觸發喚醒機制  
具備閾值觸發 DO 和 MQTT 事件警報

### + 工業等級設計

IP65 外殼設計  
電池或直流電源輸入  
支援 -30 到 70°C (-22 至 158°F) 的操作溫度

## 頻率段

### + LTE Cat. NB2/M1 Frequency Band

Model	Band/Channel	Regions
EDGE 2	FDD:B1/B2/B3/B4/B5/B8/B12/ B13/B17/B18/B19/B20/B25 /B27/B28/B66/B71/B85 GSM:B5/B8/B3/B2	All Regions (*Worldwide)

## 產品特色

### + WAN & Uplink

#### EDGE 2

- Protocol: TCP, UDP, MQTT
- Cloud: AWS, Azure and MQTT based cloud
- Data Security: SSL TLS 1.2
- Connection: By schedule plan  
(per Yearly/Monthly/Weekly/Daily/Hourly or per designated Minutes)
- Data Upload: Multiple servers supported for redundancy,  
re-trial plan for interrupted connection

### + Administration

#### Configuration

- Windows Utility, Console CLI, USB-to-Serial console cable

#### System

- Backup & Restore, Reboot & Reset, Syslog, Upgrade

### + Field Communication

#### Modbus

- Master for accessing attached Modbus RTU Slaves  
(Up to 8 Modbus devices supported)

#### Data Logging

- By schedule plan  
(per Yearly/Monthly/Weekly/Daily/Hourly or per designated Minutes)

## 產品規格

### + Wireless Interfaces

#### EDGE 2

- 1 x LTE Cat. M1/NB2 Module
- 3GPP, Cat. M1/NB2 with PSM (\*Power save mode) supported

#### Data Transmission

- Cat. M1: Max. 375Kbps (DL); Max. 375Kbps (UL)
- Cat. NB2: Max. 32Kbps (DL); Max. 70Kbps (UL)

#### Specification

- Max. Output Power: 23dBm
- Sensitivity:
  - 107dBm@Cat M1, 1.4MHz Bandwidth, CE Mode A
  - 113dBm@Cat NB2, CE Level 0

### + I/O Interfaces

#### Analog Input

- 3 x AI ports (supports 0-10V/4-20mA)
- Conversion: 10bit ADC
- Input Range: 0-10V, or 4-20mA (Dual mode)
- Resolution: 10mV, or 20uA (with 2-bit hard-wired divider involved)

#### Digital Input

- 2 x DI ports (Isolated, supports Pulse Counter, Dry Contact)

### Digital Output

- 1 x DO port (Isolated, Non-Relayed Output, Maximum 24V/300mA)

### Wake-up Port

- 1 x Internal Reed Switch (EDGE 2) and dedicated wake-up port reserved for device wake-up triggering

### RS-485

- Support 8 sets Modbus RTU devices
- Modbus/RTU read command FC 1,2,3,4 and write command FC 5,6 from MQTT or LoRaWAN

## + I/O Connectors

2 x M16 waterproof connectors with 2-hole cable gland for wiring the required ports to external sensors/meters

## + Embedded Antennas

### EDGE 2 Series

- 1 x Internal 2dBi Antenna

## + Log Storage

### Data logging (EDGE 2)

- 16MB Internal Storage

## + Power

4000mAh 3.6V Li-SOCL2 battery (Optional), or external 5-12VDC Power Input predefined by Jumper

### • Power Consumption:

- ON: 1000mWH
- Sleep: 0.3mWH
- Sending: 11.25mW / per one time

## + Mechanical

### Casing

- Plastic (PC, UL-94V2)
- IP65

### Dimension

- 105 x 55 x 76.47mm (W x D x H); Enclosure only
- 131.97 x 81 x 76.47mm (W x D x H); Including Cable Gland, Brackets

### Weight

- 0.3Kg (0.66lbs)

### Installation

- Bracket mounting

## + 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% (non-condensing)

## **+ Regulatory Approvals**

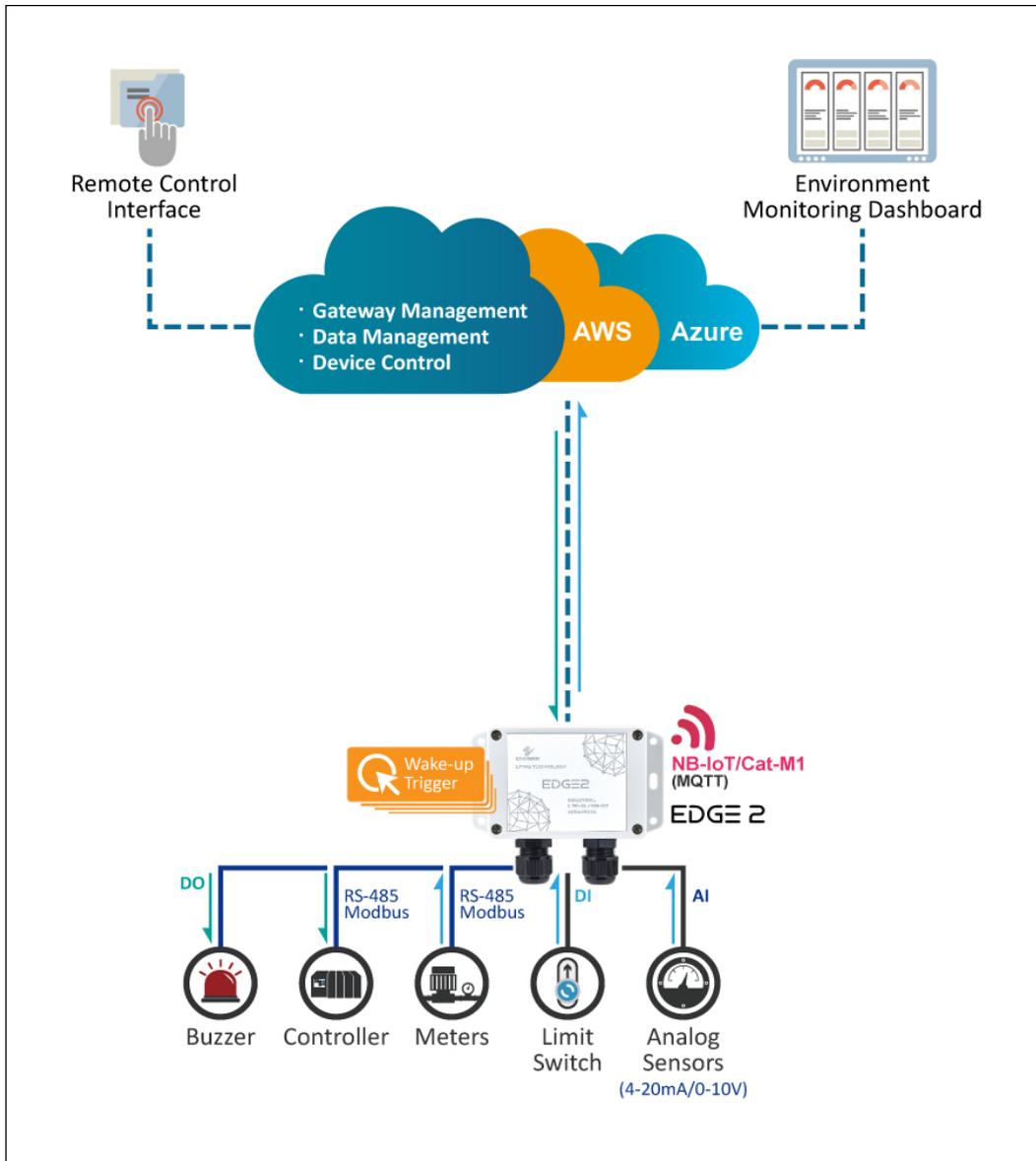
### **Safety**

- EN 60950-1

### **Emissions/Immunity**

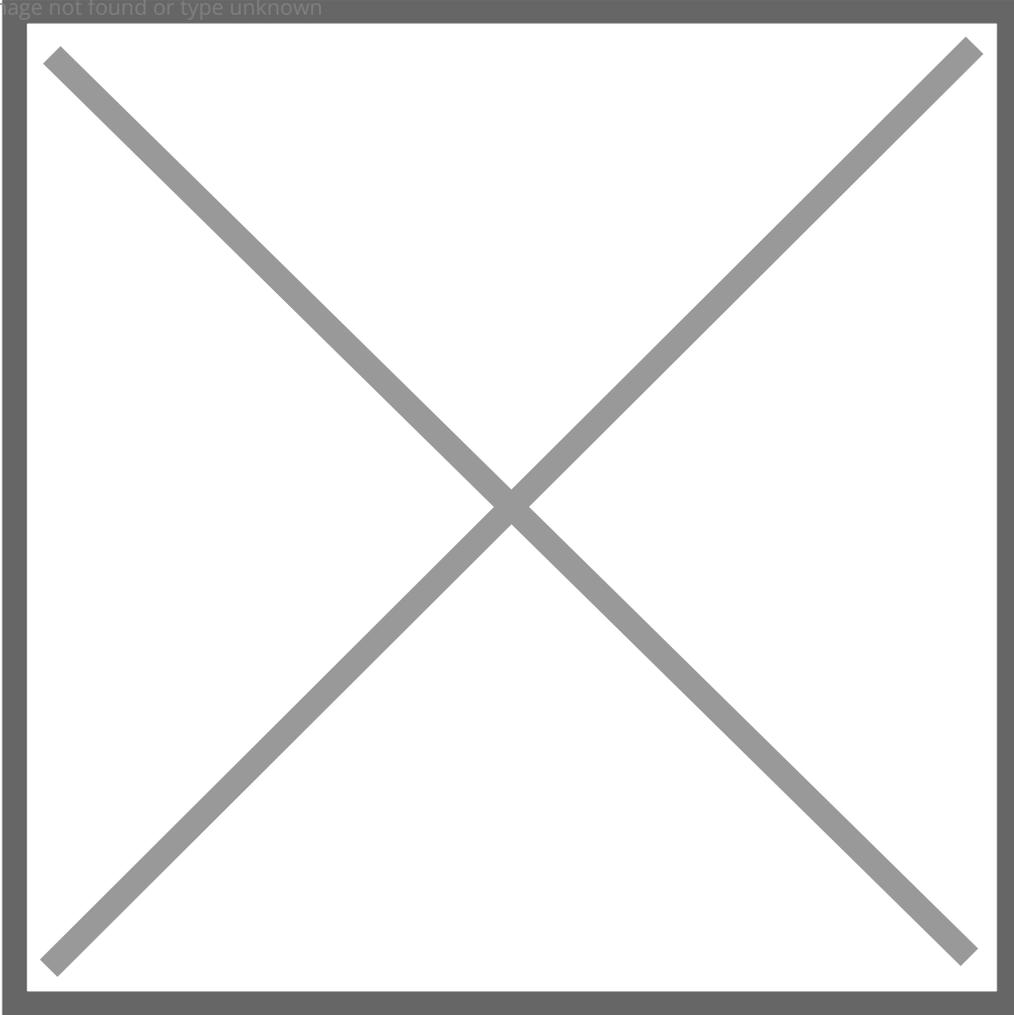
- CE/NCC/EAC

# 應用圖



## 產品尺寸圖

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## 訂購型號

Model	Band/Channel	Regions
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	/B27/B28/B66/B71/B85 GSM:B5/B8/B3/B2	

## Included Accessories

- Device x 1
- Cable Tie for fixing battery x 2
- Jumper for AI current mode setting x 3
- Water & Dust-proof stopper x 3

## Optional Accessory

USB-to-Serial Console Cable



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Note

W96G-  
1140Y11  
26

W96G-  
11330Y1  
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Note

USB-to-Serial console cable is an optional accessory purchased separately for utility configuration for EDGE 2 setting and configuration.

ER18505-3.6V-4000mAh battery for EDGE 2 series.

