



120 Watts,  
24V Booster



## IGS-402S-4PH24

4x 10/100/1000Base-T and 2x 100/1000Base-X SFP with 4x PoE+

## IGS-401F-4PH24

4x 10/100/1000Base-T and 1x 1000Base-X Fiber with 4x PoE+

## IGS-402F-4PH24

4x 10/100/1000Base-T and 2x 1000Base-X Fiber with 4x PoE+

## IGS-600-4PH24

6x 10/100/1000Base-T with 4x PoE+

此系列產品為5~6個非網管型工業級千兆PoE交換器，支援4個 10/100/1000Base-T的 PoE 以提供穩定可靠的乙太網傳輸。搭配堅固的Din Rail 軌道式或壁掛安裝外殼，此產品專為惡劣環境，如工業網路、安全自動化應用、交通監控、安防自動化應用、IP surveillance、城市安防及智能交通系統（ITS），也適用於許多環境條件超出一般商規產品規格的軍事和公用事業的市場應用中。此系列產品也能達到標準工作溫度範圍（-10~60°C）及寬工作溫度範圍（-40~75°C）以滿足工業自動化特殊應用的需求。

### 功能特色

- 提供4個IEEE802.3af / 802.3at PoE埠 (輸出功率30W/每埠)
- PoE 最大輸出總功率達 120 瓦
- 雙電源輸入 24/48VDC (20~57VDC) 冗餘備援，內建非常高效率的電源升壓器 (94~97%) 可提供穩定的 55VDC 供給 PoE 輸出
- 穩壓功能，穩定輸出電壓 55VDC，供給 PoE 輸出
- 寬溫工作範圍 (-40 ~ 75°C) “E” 系列產品
- 通過 UL60950-1, CE, FCC, EN50121-4 認證
- 通過工業級 EMS(抗電磁干擾), EMI (電磁波干擾), EN61000-6-2, EN61000-6-4 認證
- 金屬外殼、IP30 防護、無風扇

### 產品規格

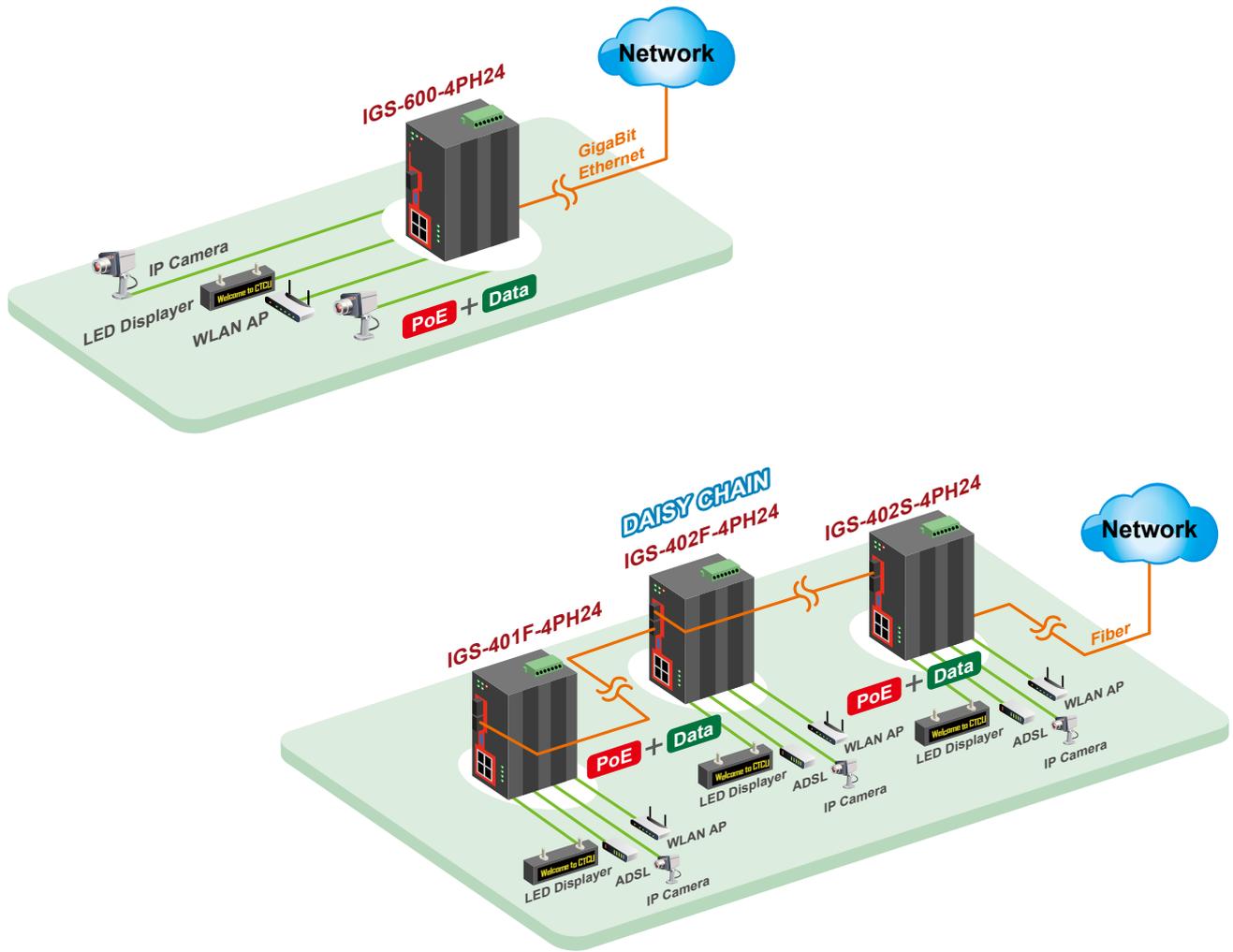
符合標準	IEEE 802.3 10Base-T 10 Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3at, IEEE802.3af
Switch Architecture	Back-plane (Switching Fabric): 10Gbps (IGS-401F-4PH24) 12Gbps (IGS-402S-4PH24, IGS-402F-4PH24, IGS-600-4PH24)
Data Processing	Store and Forward
Flow Control	IEEE 802.3x flow control (全雙工), back pressure (半雙工)
Provides Broadcast Storm Protection	提供, Enable/Disable by DIP SW
Jumbo Frame	10K Bytes
MAC Address Table	8K
Packet Buffer Size	1Mbits
PoE標準	IEEE 802.3at/af
PoE RJ-45 Pin 腳定義	RJ-45 port #1~#4 support IEEE 802.3at/af End-Span, Alternative A mode. V+ : RJ-45 pin 1, 2. V- : RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)
網路連接器	4 個RJ-45電口(IGS-402S-4PH24, IGS-401F-4PH24, IGS-402F-4PH24) 6 個RJ-45電口(IGS-600-4PH24) 10/100/1000Bsae-T自動協商、自動MDI/ MDI-X等功能, 全/半雙工 2個100/1000Bsae-X SFP (IGS-402S-4PH24) 1或2個1000Base-X Fiber Connector: SC Multi Mode or Single Mode (IGS-401F-4PH24, IGS-402F-4PH24)
網路線規格	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m) Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um
通訊協議	CSMA/CD

LED指示燈	Power 1 (綠), Power 2 (綠), 故障 (琥珀色) RJ-45 連接埠: Link/Active(綠), 速度10(無燈號), 100(綠), 1000(黃) 光纖埠per Port: Link/Active(綠) PoE連接埠LED, LED /per Port: • 啟動: ON • 關閉: OFF • 故障: 閃爍 (過載、短路、端口啟動失敗)															
DIP SW	DIP 1 ON: Disable power failure alarm OFF: Enable power failure alarm DIP 2 ON: Disables broadcast storm protection OFF: Enables broadcast storm protection ON: Fiber 2 for 100Base-FX SFP DIP 3 OFF: Fiber 2 for Gigabit SFP (限IGS-402S-4PH24) ON: Fiber 1 for 100Base-FX-SFP DIP 4 OFF: Fiber 1 for Gigabit SFP (限IGS-402S-4PH24)															
電壓極性保護	提供															
電流過載保護	提供															
電源供應	雙DC電源輸入24/48V(20~57VDC)冗餘備援 (可拔插式配接器)															
耗電量	<table border="1"> <thead> <tr> <th>輸入電壓</th> <th>IGS-402S-4PH24</th> <th>IGS-401F-4PH24</th> <th>IGS-402F-4PH24</th> <th>IGS-600-4PH24</th> </tr> </thead> <tbody> <tr> <td>24VDC</td> <td>143.3W</td> <td>142.1W</td> <td>143.2W</td> <td>142.9W</td> </tr> <tr> <td>48VDC</td> <td>138.2W</td> <td>137.4W</td> <td>138.2W</td> <td>139.6W</td> </tr> </tbody> </table>	輸入電壓	IGS-402S-4PH24	IGS-401F-4PH24	IGS-402F-4PH24	IGS-600-4PH24	24VDC	143.3W	142.1W	143.2W	142.9W	48VDC	138.2W	137.4W	138.2W	139.6W
輸入電壓	IGS-402S-4PH24	IGS-401F-4PH24	IGS-402F-4PH24	IGS-600-4PH24												
24VDC	143.3W	142.1W	143.2W	142.9W												
48VDC	138.2W	137.4W	138.2W	139.6W												
PoE 電源輸出功率	最大PoE電源輸出功率為120W(30W/每端口)															
告警繼電器規格	Relay outputs with current carrying capacity of 1A @24VDC															
可插拔式配接器	提供一個6針可插拔式配接器。內含2個備援輸入電源，一個告警繼電器															
工作溫度	-10 ~ 60°C (IGS-402S-4PH24, IGS-401F-4PH24, IGS-402F-4PH24, IGS-600-4PH24) -40 ~ 75°C (IGS-402S-4PHE24, IGS-401F-4PHE24, IGS-402F-4PHE24, IGS-600-4PHE24)															
工作濕度	5% to 95% (無冷凝)															
儲存溫度	-40~85°C															
外殼	金屬外殼、IP30防護、無風扇															

尺寸	106x 62.5x 134.8mm (DxWxH)
重量	0.84公斤(IGS-402S-4PH24)
	0.67公斤(IGS-401F-4PH24)
	0.68公斤(IGS-402F-4PH24)
	0.84公斤(IGS-600-4PH24)
安裝方式	Din Rail 軌道式安裝或壁掛式
MTBF	334,448小時(IGS-402S-4PH24)
	316,408小時(IGS-401F-4PH24)
	306,704小時(IGS-402F-4PH24)
	296,517小時(IGS-600-4PH24) (MIL-HDBK-217)
產品保固	5年

認證	
EMC	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE EN55022 Class A
	軌道交通
重工業環境 抗電磁干擾	EN61000-6-2
重工業環境 電磁輻射干擾	EN61000-6-4
EMS (Electromagnetic Susceptibility) 抗電磁干擾等級	EN61000-4-2 (ESD) Level 3, Criteria B
	EN61000-4-3 (RS) Level 3, Criteria A
	EN61000-4-4 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Safety	UL60950-1
防撞擊	IEC 60068-2-27
防摔	IEC 60068-2-32
防震	IEC 60068-2-6

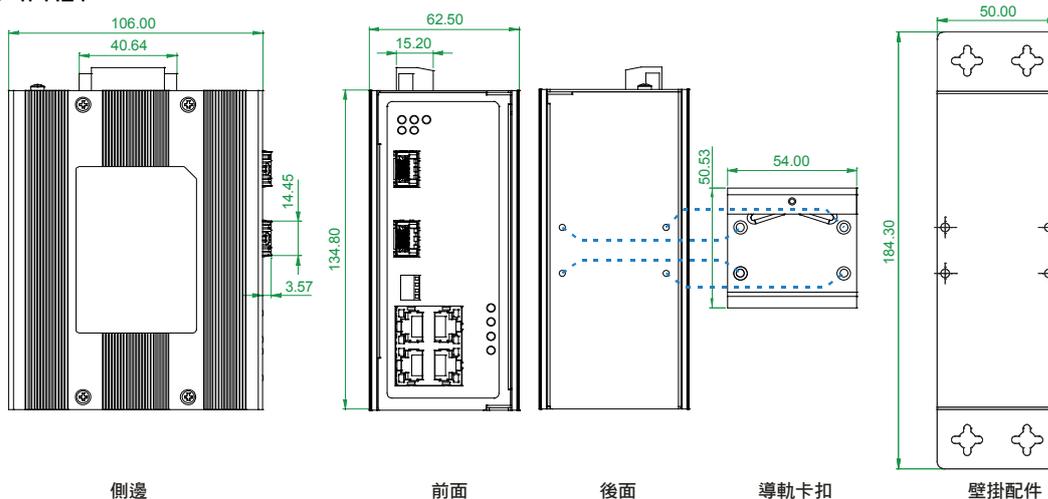
應用圖



圖例 : IGS-402S-4PH24, IGS-401F-4PH24, IGS-402F-4PH24, IGS-600-4PH24  
PoE Gigabit Ethernet Switch Transmission

## 機構尺寸

### IGS-402S-4PH24



側邊

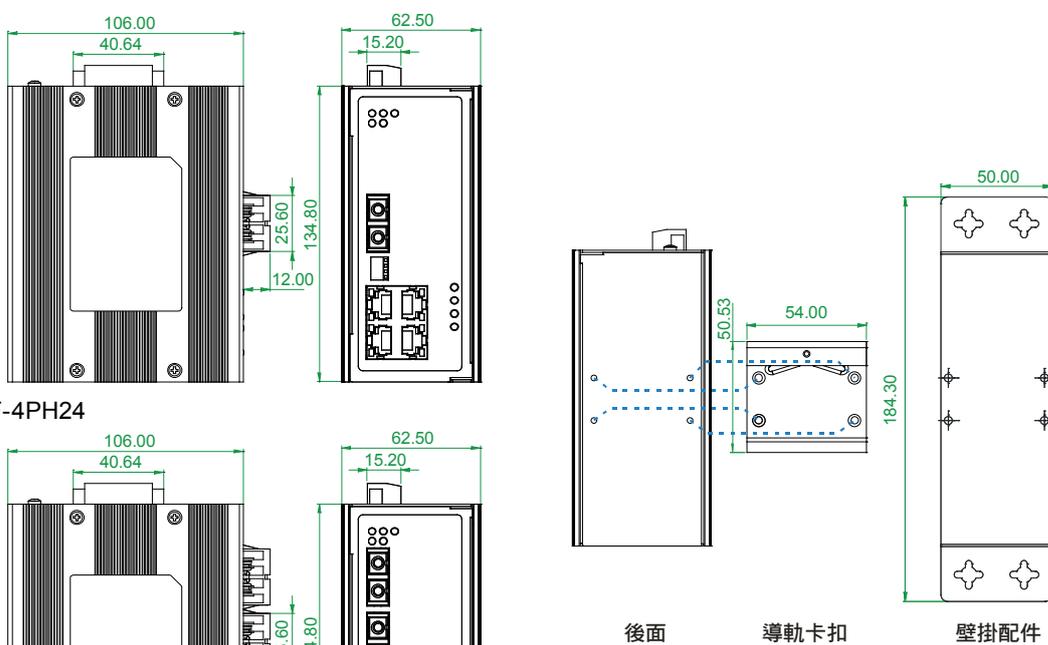
前面

後面

導軌卡扣

壁掛配件

### IGS-401F-4PH24

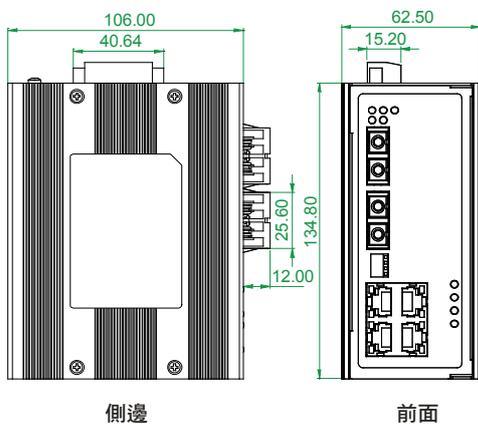


後面

導軌卡扣

壁掛配件

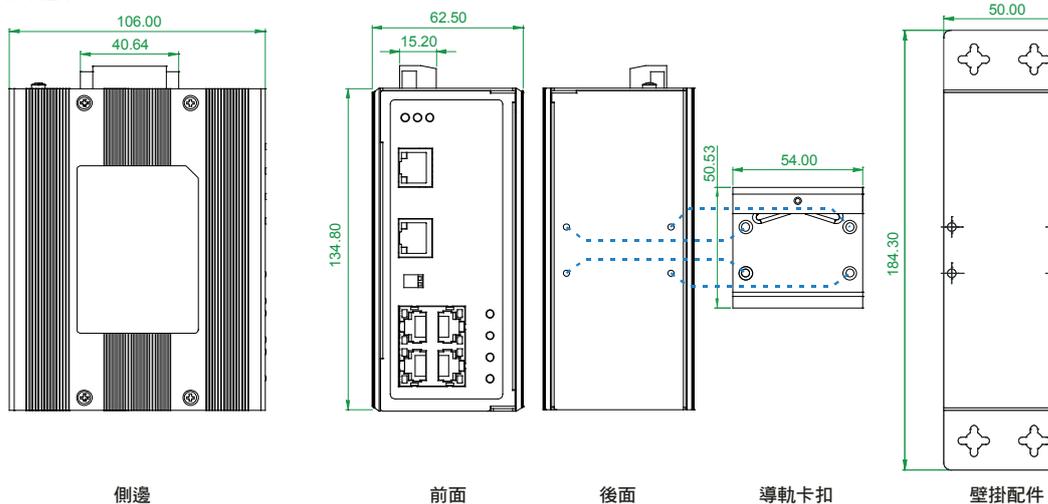
### IGS-402F-4PH24



側邊

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### IGS-600-4PH24



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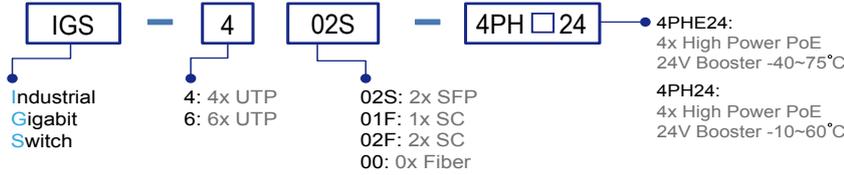
導軌卡扣

壁掛配件

訂購資訊

型號	總埠數	UTP Port		光纖		認證				操作溫度
		10/100/1000 Base-T(X)	1000 Base-X	100/1000 Base-X	鐵道交通 EN50121-4	安全 UL60950-1	EN61000-6-2 EN61000-6-4	CE, FCC		
IGS-402S-4PH24	6	4	—	2 SFP	V	V	V	V	-10~60 C	
IGS-402S-4PHE24	6	4	—	2 SFP	V	V	V	V	-40~75 C	
IGS-401F-4PH24	5	4	1 SC	—	V	V	V	V	-10~60 C	
IGS-401F-4PHE24	5	4	1 SC	—	V	V	V	V	-40~75 C	
IGS-402F-4PH24	6	4	2 SC	—	V	V	V	V	-10~60 C	
IGS-402F-4PHE24	6	4	2 SC	—	V	V	V	V	-40~75 C	
IGS-600-4PH24	6	6	—	—	V	V	V	V	-10~60 C	
IGS-600-4PHE24	6	6	—	—	V	V	V	V	-40~75 C	

型號命名規則

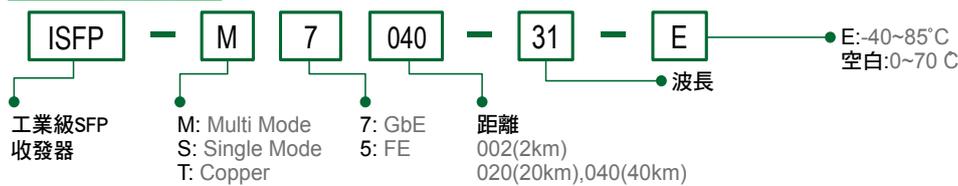


Fiber Connector Type	Connectivity Distance
SC	SC001:500m(SC,M/M) SC002:2km(SC,M/M) SC020:20km(SC,S/M)
(Only for IGS-401F-4PH24, IGS-402F-4PH24)	SC040:40km(SC,S/M)
	SC020A: WDM 20km A type (TX: 1310nm)
	SC020B: WDM 20km B type (TX: 1550nm)

選購配件

DR-120-24	Industrial Power, Input 88 ~ 132VAC / 176 ~ 264VAC, Output 24VDC, 120W, -10 ~ +60°C
DRP-240-48	Industrial Power, Input 85 ~ 264VAC, Output 48VDC, 240W, -10 ~ +70°C

SFP命名規則



3 Industrial Unmanaged GbE PoE Switch