

ICPS-1280-GA-K

8 埠 10/100/1000TX + 2 埠 10/100/1000 SF P + 8 PoE 供電 複合埠
8 埠 PoE 供電型工業乙太網路交換機

- 符合 IEEE 802.3at+ PoE 電力線供電標準，單埠輸出高達 30W
- 雙電源輸入並支援極性保護與過電流保護
- 符合工業安全規範標準
- 支援 Non-Blocking 無阻塞設計
- 支援存儲轉發設計
- 具備告警輸出功能，可連接外部警示燈
- 耐高溫設計，操作溫度範圍 -40°C ~ 75°C
- 超寬電壓輸入設計 24VDC ~ 48VDC
- 符合 IP-30 強度保護
- 寬電壓輸入設計 48VDC ~ 54VDC
- 適用環境：安防領域、戶外監控、工業自動化、工業視覺檢測、太陽能發電應用



OVERVIEW

萬東科技 ICPS-1280-GA-K 提供 8 埠 10/100/1000M 超高速乙太網路端口，包含 2 port 10/100/1000M RJ-45 端口複合 2 port 1000M 光纖埠，並支援 SFP 標準界面，其中 1~8 埠支持 POE (power over Ethernet) 符合 IEEE802.3 at /IEEE 802.3 at+，最高輸出每埠 30W，可應用於多數 PTZ IP-cam 以及 Speed Dome 需求。

ICPS-1280-GA-K 支援雙電源輸入，以及(power failure alert) 電源遺失自動告警顯示，該功能並支援外部警示燈號，以提高設備安全性。同時支援滑軌式(Din-Rail)或壁掛式安裝，方便於安裝施工。

ICPS-1280-GA-K 是為符合嚴峻使用環境而設計，全機身符合 IP-30 強化保護，並通過相關工業安全規範檢驗，EMI 檢磁規範及可靠性實驗室通過各式嚴格試驗包含落下、震動及衝擊試驗，以確保產品設計的可靠性及穩定度。

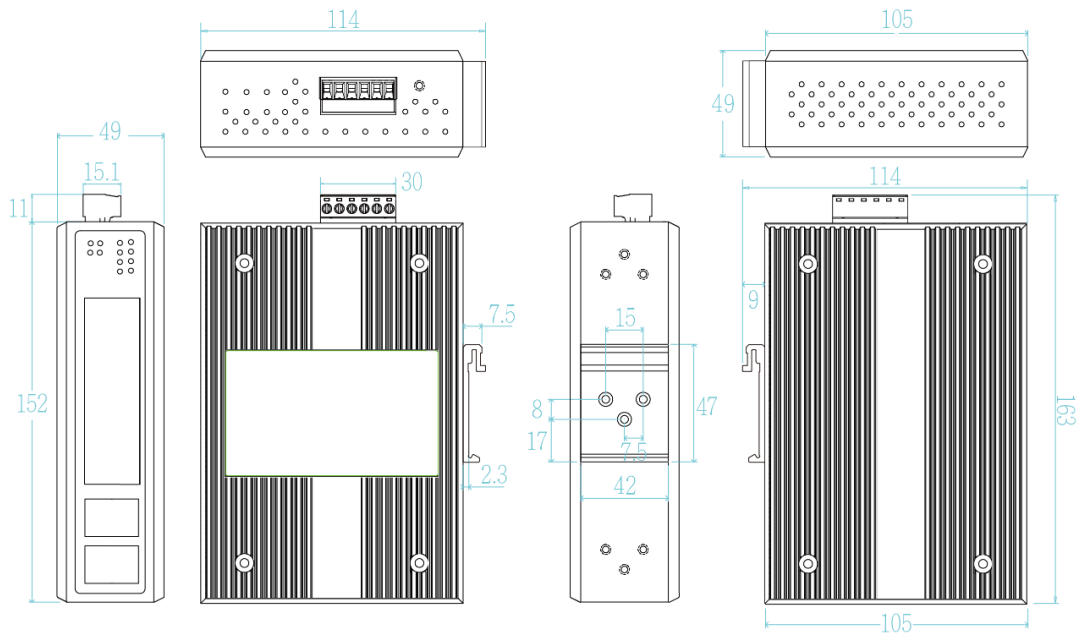
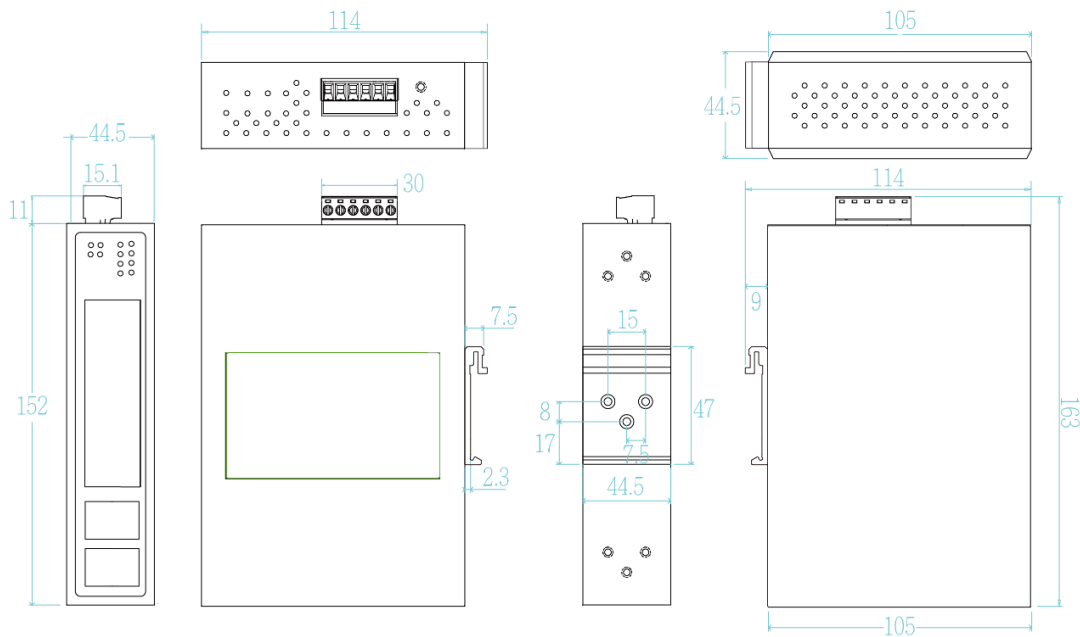
ICPS-1280-GA-K 採 Non-Blocking 無阻塞設計，確保在各種狀況下能全速傳輸，同時每埠最高可提供 200Mbps 雙向傳輸速率，提供足夠的帶寬處理能力，確保網路可長時間並且穩定使用，是提升網路性能的最佳方案。

ICPS-1280-GA-K 可與戶外無線接入點(WIFI-AP)及 Speed Dome/IP-CAM 等設備連接，並可應用於安防科技、戶外監控、工業自動化、工業視覺檢測、太陽能發電應用等環境。

ICPS-1280-GA-K 支援寬溫設計，符合-40 ~ 75 度操作溫度，可長時間安裝於戶外機箱，是最佳工業級網路交換機方案。

FEATURES & BENEFITS

- 系統介面 / 效能
 - RJ-45 埠支援 Auto MDI/MDI-X 功能
 - 嵌入式 8-埠 PoE Injector 模組
 - 存儲轉發系統架構 Store-and-Forward
 - 背板頻寬 (Switching Fabric): 20Gbps
 - 16K MAC 網路地址表
- 寬溫設計(-40°C~75°C)
- 強固化設計，符合 IP-30 保護
- 寬電壓輸入直流 DC 12-48V，雙電源設計
- 符合工業用檢磁及安全規範
- 支援極性保護，過電流保護

DIMENSIONS
ICPS-1280-GB-AE

ICPS-1280-GA-K

SPECIFICATION

IEEE Standards	IEEE802.3 10Base-T Ethernet	Transfer Rate	14,881pps for Ethernet port	
	IEEE802.3u 100Base-TX		148,810pps for Fast Ethernet port	
Switch Properties	IEEE802.3ab 1000Base-TX	Connectors	148,810pps for Gigabit Ethernet port	
	IEEE802.3z Gigabit Fiber		10/100/1000TX: 8 x RJ-45 with auto MDI/MDI-X function	
	IEEE802.3x Flow Control and Back Pressure	MAC Address	Support 8 PoE injector function	
	IEEE 802.3af PoE specification		1000M fiber: 2 x dual speed SFP slot for Single-mode or Multi-mode type fiber cable	
	IEEE 802.3At+ PoE specification		Packet Buffer	16K MAC addresses
	Back-plane (Switching Fabric): 20Gbps Packet throughput ability (Full-Duplex): 1488096pps @64bytes			4M bits

Datasheet Version 1.0 Preliminary

Processing	Store-and-Forward	PoE Power	POE power per port 30watts @54V Total power 200Watts @ 48VDC input (適用-K,-E 系列) Maximum total power 240Watts @ 54VDC input (適用-K,-E 系列) Total power 128Watts @ 24VDC input (適用-B 系列)
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)	Consumption	8.76 Watts (Full load: Only Ethernet)
Optical Cable	Multi-mode: 50/125um~62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)	Overload Current	Present
PoE pin Assignment	RJ-45 port #1 - #8 support IEEE 802.3at End-point; Alternative A mode. Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6 Data (1,2,3,6)	Reserve Polarity	Present
Protocol	CSMA/CD	Operating Humidity	5% to 95% Non-condensing
Case Dimension	Aluminum case, IP-30; 49mm(W)x105mm(D)x152mm(H)	Operating Temperature	-40°C~75°C / -40°F~167°F
Weight	648g	Storage Temperature	-40°C~85°C / -40°F~185°F
LED	Power Indicator Green LED x 2 10/100/1000Base-T(X) RJ45 port indicator Green for port Link/Act. Amber for Duplex/Collision	MTBF	Over 190000 hours ,(>20 Years)
Power Supply	48~54VDC, Redundant power with polarity reverse protect function and removable terminal block	FCC(EMI)	FCC Part15, Subpart B ,Class A
		CE(EMi)	EN61000-6-4(EMI)
		CE(EMS)	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 EN61000-6-2(EMS)
		Stability Testing	IEC60068-2-31 (Drop Off) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
		Warranty	3 years

*Future Release
**Optional

ORDERING INFORMATION

- **ICPS-1280-GA-K**
8 10/100/1000TX + 2 10/100/1000TX/Giga SFP w/8 PoE Injector Industrial Switch; Input Power 48VDC ~ 54 VDC ; Include of 120W industrial power ; -20°C~60°C;
- **ICPS-1280-GA-E**
8 10/100/1000TX + 2 10/100/1000TX/Giga SFP w/8 PoE Injector Industrial Switch; Input Power 48VDC ~ 54 VDC ; -40°C~75°C;
- **ICPS-1280-GB-AE**
8 10/100/1000TX + 2 10/100/1000TX/Giga SFP w/8 PoE Injector Industrial Switch; Input Power 24VDC ~ 48 VDC ; -40°C~75°C;

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

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|--|--|
| ■ 8330-162 MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) |
| ■ 8330-163 MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) |
| ■ 8330-165 MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver | ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-170 MINI GBIC 1000EZ (120km) Transceiver | ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-168 MINI GBIC 1000T (100m) Transceiver | ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| ■ 8330-061 100Base LX 30KM, Single-mode, LC Transceiver | ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) |
| ■ 8330-060 100Base FX 2KM, Multi-mode, LC Transceiver | |

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