

# ICES-1280-GF-AK

8 埠 10/100/1000TX + 2 埠 1000 SFP 光纖埠

工業平坦型乙太網路交換機



- 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 -20°C ~ 60°C
- 符合 IP-30 強度保護
- 支援彈性安裝方式、機架式、壁掛式、DIN-Rail 安裝
- 寬電壓輸入設計 12VDC ~ 54VDC
- 適用環境：安防領域、戶外監控、宅內箱



## OVERVIEW

萬東科技 ICES-1280-GF-AK 提供 8 埠 10/100/1000M 超高速乙太網路端口，包含 2 埠 1000M 光纖埠，並支援 SFP 標準界面，可應用於多數遠端連線需求。

ICES-1280-GF-AK 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。

ICES-1280-GF-AK 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 檢磁規範及可靠度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。

ICES-1280-GF-AK 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 2000Mbps 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。

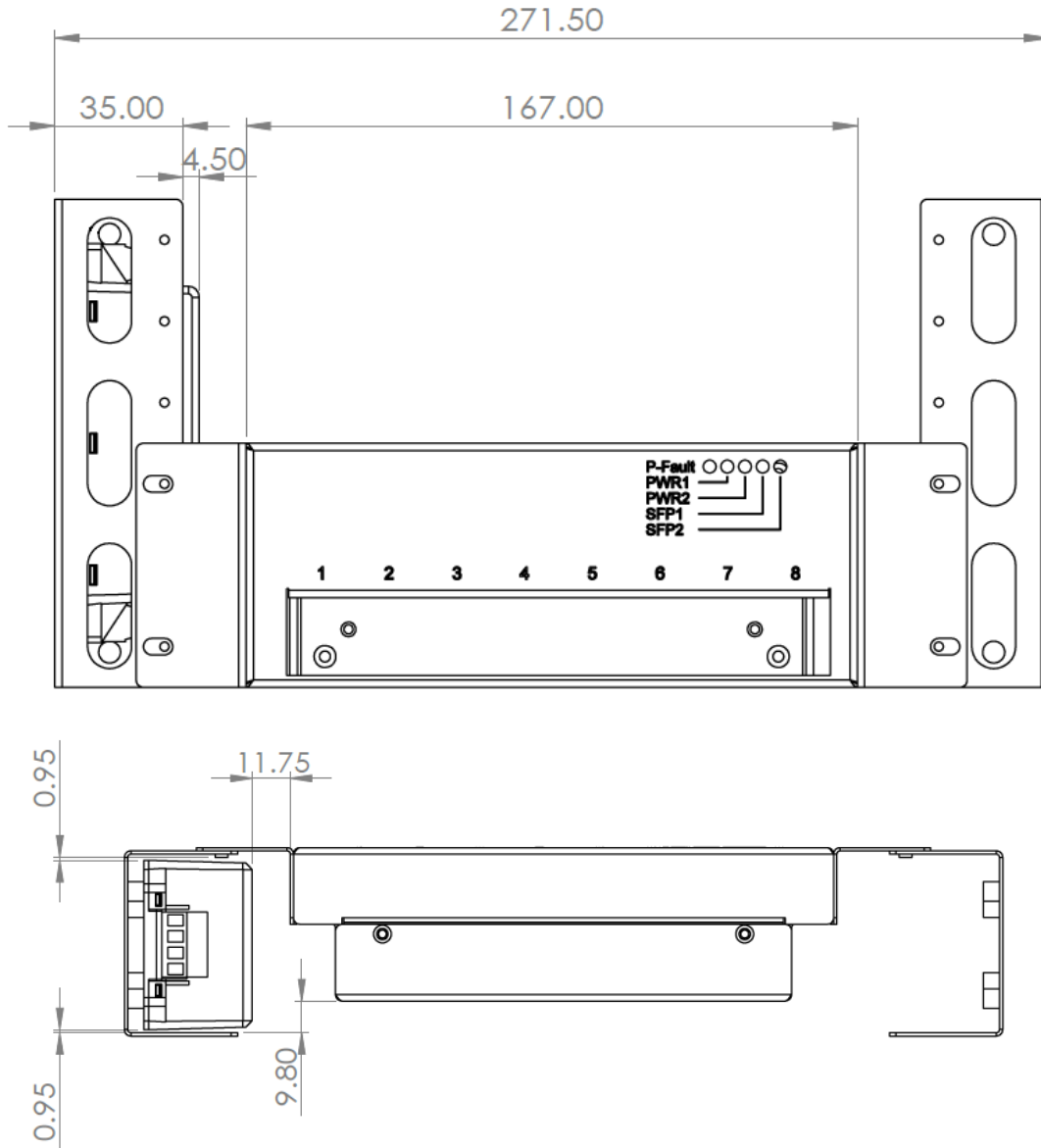
ICES-1280-GF-AK 可與戶外無線接入點(WIFI-AP)及 Speed dome/IP-CAM 等設備連接，並可應用於安防科技、戶外監控、宅內箱應用等環境。

ICES-1280-GF-AK 支援寬溫設計，符合-20~60 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
  - 存儲轉發系統架構
  - 背板頻寬 (Switching Fabric): 20Gbps
  - 8K MAC 網路地址表
- 耐高溫設計(-20°C~60°C)
- 強固化設計，符合 IP-30 保護
- 寬電壓輸入直流 DC 12~54 V，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

**ICES-1280-GF-AK**

**SPECIFICATION**

IEEE Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-TX IEEE802.3z Gigabit Fiber IEEE802.3x Flow Control and Back Pressure	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)
Switch Properties	Back-plane (Switching Fabric): 20Gbps Packet throughput ability (Full-Duplex): 1488096pps @64bytes	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)
Transfer Rate	14,881pps for Ethernet port 148,810pps for Fast Ethernet port 148,8100pps for Gigabit Ethernet port	Protocol	CSMA/CD
Connectors	10/100/1000TX: 8 x RJ-45 with auto MDI/MDI-X function 1000M fiber: 2 x GIGA SFP slot for Single-mode or Multi-mode type fiber cable		
MAC Address	8K MAC addresses		
Packet Buffer	4M bits		
Processing	Store-and-Forward		

Datasheet Version 1.0 Preliminary

Case Dimension	Metal case,IP-30; 167mm(W)x67mm(D)x48mm(H)	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)
Weight	480g		
LED	Power Indicator Green LED x 2 10/100/1000Base-T(X) RJ45 port indicator Green for port Link/Act. Amber for Duplex/Collision	Stability Testing	IEC60068-2-31 (Drop Off) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
Power Supply	12~54VDC, Redundant power with polarity reverse protect function and removable terminal block		
Consumption	8.76 Watts (Full load: Only Ethernet)	Warranty	3 years
Overload Current	Present		
Reserve Polarity	Present		
Operating Humidity	5% to 95% Non-condensing		
Operating Temperature	-20°C~60°C		
Storage Temperature	-40°C~85°C / -40°F~185°F		
FCC(EMI)	FCC Part15,SubpartB ,Class A		
CE(EMi)	EN61000-6-4(EMI)		

\*Future Release  
\*\*Optional

## ORDERING INFORMATION

### ■ ICES-1280-GF-AK

8 10/100/1000TX +2 10/100/1000TX/Giga SFP Industrial Switch; Input Power 48VDC ~ 54 VDC ; Include of 30W industrial power ; -20°C~60°C;

## OPTIONAL ACCESSORIES

### Mini GBIC (SFP)

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

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