

ICES-1224-K

24 埠 10/100TX + 2 埠 10/100/1000T SFP 複合埠
工業乙太網路交換機



- 符合工業安全規範標準
- 支援 26 埠 Non-Blocking 無阻塞設計
- 支援存儲轉發設計
- AC 電壓輸入設計 110V ~ 240V
- 適用環境：安防領域、戶外監控、工業自動化、工業視覺檢測



OVERVIEW

萬東科技 ICES-1224-K 提供 24 埠 100M 端口，包含 2 port 10/100/1000 M RJ-45 端口以及 2 port 1000M 光纖複合埠，並支援 SFP 標準界面，符合 IEEE802.3 ab / IEEE 802.3 z, 最高頻寬每埠 2Gbps，可應用於多數基礎網路連接需求。

ICES-1224-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。

ICES-1224-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。

ICES-1224-K 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): 8.8Gbps
 - 16K MAC 網路地址表
- 工溫設計 (-20°C~60°C)
- 強化化設計，符合 IP-30 保護
- 電壓輸入交流 110V-240V
- 符合工業用檢磁及安全規範
- 支援極性保護，過電流保護

SPECIFICATION

Hardware Specification			
IEEE Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
Switch Architecture	Back-plane (Switching Fabric): 8.8Gbps	Optical Fiber	Distance: Multi mode: 0 to 5 km, 1300 nm (50/125 μm, 800 MHz*km) 0 to 4 km, 1300 nm (62.5/125 μm, 500 MHz*km) Single mode: 0 to 40 km, 1310 nm (9/125 μm, 3.5 PS/(nm*km)) 0 to 80 km, 1550 nm (9/125 μm, 19 PS/(nm*km)) Min. TX Output: Multi mode: -20 dBm
Transfer Rate	14,881pps for Ethernet port 148,810pps for Fast Ethernet port 1,488,100pps for Gigabit Fiber Ethernet port		
MAC Address	16K MAC address table		
Connectors	10/100TX: 24 x ports RJ-45 with Auto MDI/MDI-X function 10/100/1000T/SFP Combo port: 2 x RJ-45 + 2 x 100/1000 SFP socket		

Datasheet Version 1.2



	Single mode: 0 to 40 km, -5 dBm; 0 to 80 km, -5 dBm Max. TX Output: Multi mode: -14 dBm Single mode: 0 to 40 km, 0 dBm; 0 to 80 km, 0 dBm Sensitivity: -36 to -32 dBm(SM); -34 to -30(MM)	Installation	Wall mount
Protocol	CSMA/CD	EMI & EMS	FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11, CE EN61000-6-2, CE EN61000-6-4
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red), 24 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow) SFP port: LNK/ACT(Green), 1000T : LNK/ACT(Green), 1000M(Green)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Power Supply	Ethernet Data input 110V~240VAC;	Power Consumption	9.86 W (no PoE load) for Ethernet data at full load
Overload current protection	Present	Warranty	3 years
Operating Humidity	5% ~ 95% (Non-condensing)		
Operating Temperature	Standard: -20°C~60°C / -4°F~140°F		
Storage Temperature	-40°C~85°C / -40°F~185°F		
Case Dimension	IP-30, 440 (W) x 200 (D) x 44 (H) mm		
Weight	2000 g		
Fan Number	2		

*Future Release
**Optional

ORDERING INFORMATION

- ICES-1224-K
24 10/100TX + 2 10/100/1000T SFP Combo Unmanaged Industrial Switch ; Input 110V~240V AC -20°C to 60°C

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

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

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