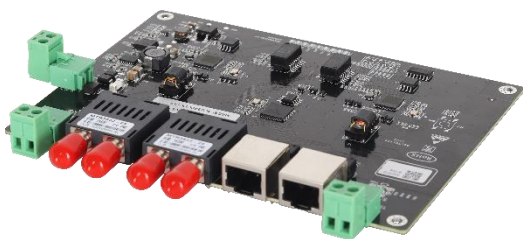# MAIWE

MES1204A

Embedded Intrinsically Safe DSL Ethernet Extender

- 4*100M ethernet ports, 2*DSL ports. The Ethernet port supports 4 fiber ports, or 2 fiber and 2 copper options

- The DSL interface can perform long-distance communication through twisted pair cables, extending the transmission distance of the Ethernet copper port, up to 1.1km

- The fiber port supports SC/FC/ST, single-mode/multi-mode, wavelength, and transmission distance are optional.

- The copper port supports 10/100M, full/half duplex, auto MDI/MDI-X, plug and play

- Comply with IEEE1901 and HomePlug-AV (HPAV) standards

- Support operating temperature of -20℃~+75℃, meeting application requirements in harsh industrial environments

CE   FC   RoHS   ⚙

Product Description

MES1204A series is a dual DSL embedded intrinsically safe Ethernet extender designed and developed specifically for industrial communication network. It supports 4*100M Ethernet ports, 2*DSL ports and DC12~32V power input. The extender meets intrinsic safety design requirements. This product can be connected in pairs through DSL ports, and transmit Ethernet signals over long distances through a pair of twisted pair telephone lines. The transmission distance can reach 1.1km, which breaks free from the 100-meter limit of copper ethernet cable. The DSL ports comply with IEEE1901 and HomePlug-AV (HPAV) standards. The 100M Ethernet ports support 4*copper ports, or 2 fiber and 2 copper ports optional. Each 100M port has auto-sensing 10/100M function, supports full-duplex or half-duplex mode, and support auto MDI/MDI-X. Tested to meet the application requirements of harsh industrial environments, it can be widely used in industrial automation, integrated energy, smart cities, rail transit, intelligent transportation, smart factories and other fields.

Specification

Switch Capability	
Backplane Bandwidth	1.6Gbps
Buffer Size	768kbit

☑ Specification

MAC Table Size	2K
Interface	
DSL Port	2*DSL ports, using 2-position 5.08mm spacing terminal blocks, communication distance 1.1km (10Mbps) (Cable requirements: 2-core twisted pair telephone line with wire diameter 0.5mm^2 or above, twisting distance less than 25mm
100M Fiber Port	2*100Base-FX fiber port (SC/FC/ST, single-mode/multi-mode, wavelengths and transmission distances are optional)
100M Copper Port	2/4*10/100Base-T(X) auto-sensing RJ45 ports, support full-duplex/half-duplex and auto MDI/MDI-X connection
Status LED	Power indicator light, DSL operation indicator light, DSL interface indicator light, Ethernet interface indicator light, support external routing of indicator light signals
Power Supply	
Input Voltage	DC12~32V
Power Consumption	＜2.5W@DC12V (MES1204A), ＜4.3W@DC12V (MES1204A-2F)
Connection	2-pin with 5.08mm spacing terminal blocks
Power Protection	Overcurrent protection, overvoltage protection, reverse connection protection, pre-charge
Physical Characteristics	
Dimensions	150×110×13.6 mm
Installations	Embedded
Weight	107g (MES1204A), 122g (MES1204A-2F)
Working Environment	
Operating Temp	-20℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	

Specification

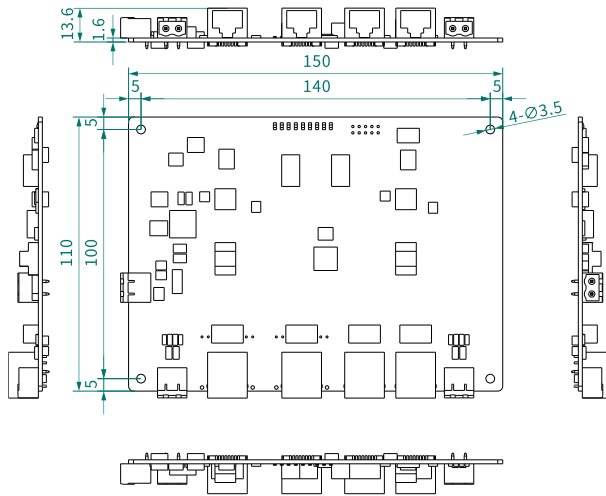| EMC	IEC 61000-4-5 (Surge): Level 2 (Power supply, ethernet port, DSL port: common mode ±1kV, differential mode ±0.5kV) IEC 61000-4-4 (EFT): Level 3 (Power supply, ethernet port, DSL port: ±2kV)
Certification	CE, FCC, RoHS

Dimensions

Unit: mm

MES1204A

MES1204A-2F
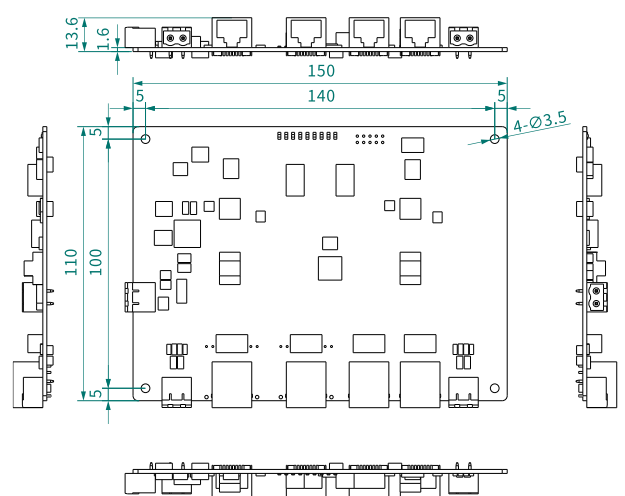
MAIWE

🛒 Ordering Information

Standard Model	100M Fiber	10/100M Copper Port	DSL Interface	Input Voltage
MES1204A	/	4	2	DC12~32V
MES1204A-2F	2	2	2	DC12~32V

📞 Contact Us

Wuhan Maiwe Communication Co., Ltd

Address: No.52 Liufang Avenue, East lake High-tech Development Zone, Wuhan, China.

Tel: 027 8717 0217

Mail: enquiry@maiwe.com

Official site: www.maiwe.com