

CES1204 Series

2×VDSL + 4×100M Ethernet ports Embedded Intrinsically Safe Ethernet Extender



- 4×100M Ethernet ports and 2×DSL ports
- Ethernet ports support 4×copper ports or 2×fiber ports + 2×copper ports
- DSL ports enable long-distance communication via twisted-pair cables, extending copper port transmission distances up to 1km
- Fiber ports support SC/FC/ST connector, single mode/multi-mode, wavelength, and transmission distance optional
- Copper ports support 10/100M auto-sensing, full/half duplex, auto MDI/MDI-X, plug and play, convenient and fast
- Complies with IEEE1901 and HomePlug-AV (HPAV) standards
- Support DC 9~24V power input, conforming to intrinsically safe circuit design standards
- -20°C~+75°C operating temperature range

Product Description

The CES1204 series is a dual DSL embedded intrinsically safe Ethernet extender specifically designed for industrial communication network dedicated line transmission applications. It supports 4×Gigabit Ethernet ports, 2×DSL ports, and DC 9~24V power input, meeting intrinsic safety design requirements. This series enables paired connections via DSL interfaces to transmit Ethernet signals over twisted-pair telephone cables at distances up to 1km. This overcomes the 100m transmission limitation of standard Ethernet ports, reducing network equipment and cabling installation costs. DSL interfaces comply with IEEE1901 and HomePlug-AV (HPAV) standards. The 100M Ethernet port offers optional configurations: 4×100M copper ports or 2×100M fiber ports+ 2×100M copper ports. Each copper port features 10/100M auto-negotiation, supports full-duplex or half-duplex modes, and automatically detects MDI/MDI-X connections. Utilizing store-and-forward switching, it delivers robust bandwidth processing, automatically identifies packet errors, minimizes transmission failures, and ensures stable, reliable, and efficient data transfer. The hardware features a fanless, intrinsically safe design with wide temperature range capabilities. It employs an embedded installation method with an operating temperature range of -20°C to +75°C. Core components utilize industrial-grade quality design solutions, passing rigorous high/low temperature, safety, and EMC testing to meet demanding industrial environment requirements. It is widely applicable in industrial automation, integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, and other fields.

Technical Specifications

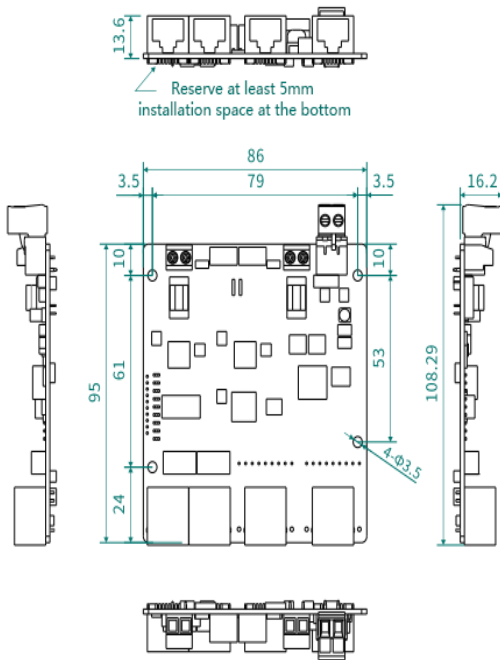
Switch Capability	
Backplane Bandwidth	1.6Gbps
Buffer Size	768kbit
MAC Table Size	2K
Interface	
DSL Port	2×DSL ports, 5.08mm pitch 2-pin terminal block, communication distance up to 1000m (Cable requirement: 2-core twisted pair telephone wire with a diameter >0.5mm ² , and twist distance<25mm)
100M Fiber Port	2×100Base-FX fiber port, support SC/FC/ST connector, single mode/multi-mode, wavelength, and transmission distance options
100M Copper Port	2/4×10/100Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/MDI-X
Status LED	Power indicator, DSL operation indicator, DSL port indicator, Ethernet port indicator; supports indicator signal output
Power Supply	
Input Voltage	DC9~24V
Power Consumption	<3W@DC12V (Full copper ports), <4.5W@DC12V (2F)
Connection	5.08mm pitch 2-pin terminal block
Power Protection	Overcurrent protection, overvoltage protection, reverse polarity protection, Pre-charge
Physical Characteristics	
Dimensions	95×86×13.6 mm (excluding connector size)
Installations	Embedded
Weight	About 80g

Working Environment	
Operating Temp	-20°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)

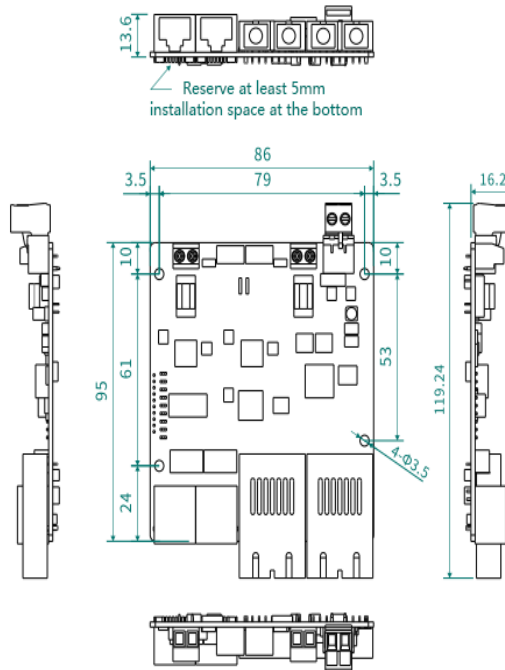
Dimensions

Unit: mm

CES1204



CES1204-2F



Ordering Information

Standard Model	100M Fiber Port	100M Copper Port	DSL Port	Input Voltage
CES1204	/	4	2	DC9~24V
CES1204-2F(M/S)	2	2	2	DC9~24V



Contact Us

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