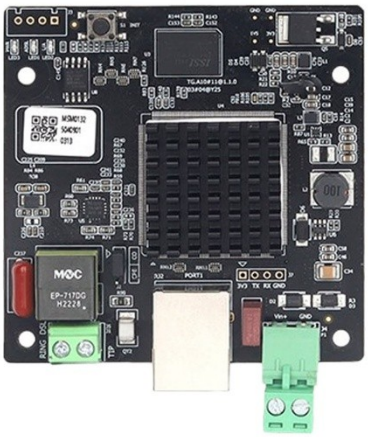
Cport1101A-GT

1×DSL + 1×Gigabit Copper Port Embedded Intrinsically Safe Ethernet Extender



- 1 x 1G copper port, 1 × DSL port
- Copper port supports 10/100/1000 Mbps, full/half duplex, auto MDI/MDI-X, plug-and-play
- DSL port enables long-distance communication over twisted pair, extending the transmission distance of the Ethernet copper port up to 3km
- Compliant with ITU G.993.2 VDSL2 standard, supporting 17a and 30a frequency profiles
- CO and CPE can be configured via jumper cap
- DC12~24V power input, intrinsically safe circuit design
- -20 ℃ ~ +75 ℃ operating temperature range

Product Description

The Cport1101A-GT is an embedded intrinsically safe Ethernet extender with 1 x 1G copper port and 1 × DSL port. It meets the requirements of intrinsic safety design and extends Ethernet transmission distance via DSL digital subscriber line. The DSL port complies with ITU-T G.993.2 standard and is compatible with G.992.1/2/3/4/5, supporting VDSL2, ADSL, ADSL2, and ADSL2+. Using digital subscriber line technology, the terminal can be connected to the Internet through a DSL link (telephone line network or twisted pair). The DSL interface is connected in pairs, with one end as the central office (CO), and the other end as the customer premises equipment (CPE), transmitting Ethernet signals over a single twisted pair for long-distance communication up to 3km. This overcomes the 100-meter limitation of copper Ethernet ports, reducing network equipment and cabling costs, and providing high-bandwidth, low-latency, and reliable network communication for industrial automation.

This Ethernet extender features 1 Gigabit copper port and 1 DSL port, adopts intrinsically safe design, and embedded installation, supporting operating temperatures from -20℃ to +75℃. It has passed rigorous functional, high/low temperature, safety, and EMC testing, ensuring reliable performance in various field networks and harsh industrial environments. It is widely applicable in industrial automation, integrated energy, smart cities, intelligent transportation, smart mines, and smart factories.

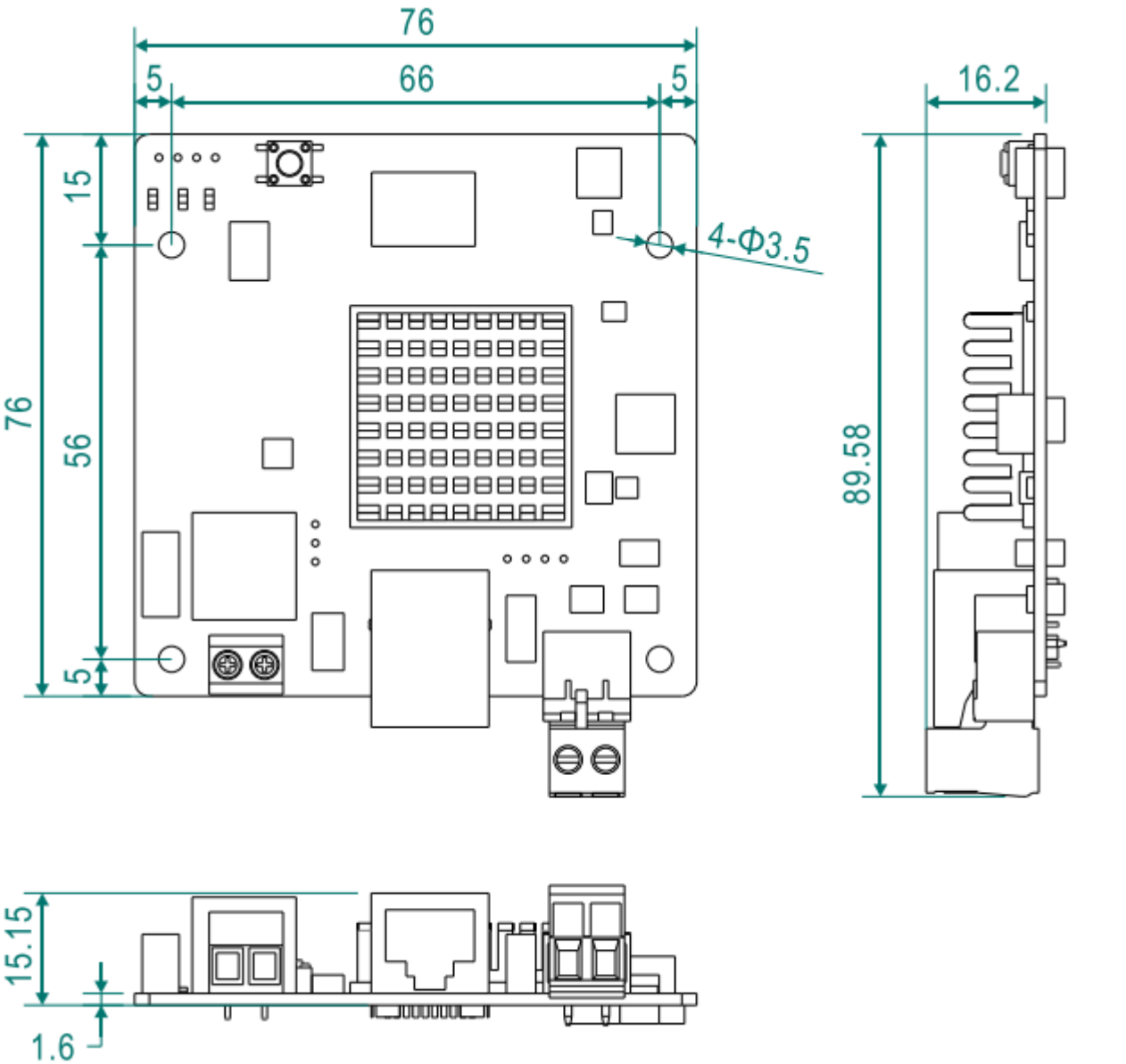
Technical Specifications

Switch Capability	
Processing Type	Cut-Through
Backplane Bandwidth	12Gbps
Jumbo Frame	2000Byte
Interface	
DSL	DSL Standard: ITU G.993.2, compatible with G.992.1, G.992.2, G.992.3, G.992.4, G.992.5 Number of ports: 1 DSL port Connection: 2-position 5.08mm pitch terminal block Maximum transmission rate: Upstream 100Mbit/s, Downstream 100Mbit/s (theoretical, 30a) Transmission distance: 300m @ 80Mbps, 1km @ 34Mbps, 2km @ 8Mbps, 3km @ 2Mbps (Tested with HSYV 2×0.5 twisted pair, for reference only; shorter distances and higher-quality cables can achieve higher transmission rates) Cable requirements: 2-core twisted pair telephone line with wire gauge ≥0.5mm², twist pitch <25mm CO/CPE setting: Default as CO, configurable via jumper cap
Gigabit Copper port	1 × 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI/MDI-X
Button	One-click reboot or factory reset
Status LED	Power indicator, DSL port indicator, Ethernet port indicator, support for external indicator signal output
Power Supply	
Input Voltage	DC12~24V
Power Consumption	<4W@DC12V

Connection	5.08mm pitch 2-pin terminal block
Protection	Overcurrent protection, overvoltage protection, reverse polarity protection, pre-charge
Physical Characteristics	
Dimensions	76×76×15.15 mm (connectors excluded)
Installations	Embedded
Weight	About 55g
Working Environment	
Operating Temp	-20℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)

Dimensions

Unit: mm (At least 5mm installation space reserved at the bottom of the PCB)



Ordering Information

Standard Model	DSL Port	Gigabit Copper Port	Input Voltage
Cport1101A-GT	1	1	DC12~24V



Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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