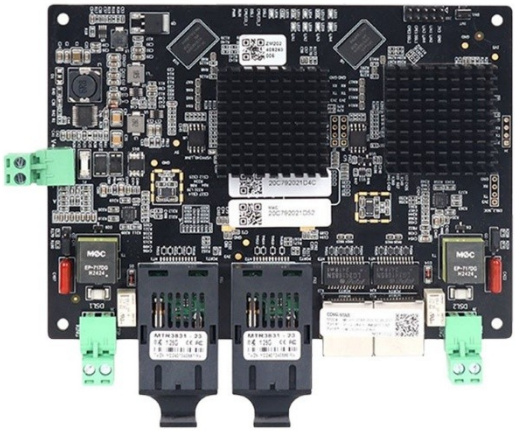
# Cport1204A-2GF-2GT

## 2×DSL + 4×Gigabit Ports Embedded Intrinsically Safe Ethernet Extender



- 2 x 1G fiber ports, 2 × 1G copper ports, 2 × DSL ports
- 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°C ~ +75°C operating temperature range

## Product Description

Cport1204A-2GF-2GT is an embedded intrinsically safe Ethernet extender designed for dedicated industrial communication network transmission applications. It features 2 × 1G fiber ports, 2 × 1G copper ports, 2 × DSL ports, and 1 × DC12~24V power input, meeting intrinsic safety design requirements. The Gigabit Ethernet interfaces adopt store-and-forward mechanism, providing high bandwidth processing capability, automatic packet error detection, and reduced transmission failures to ensure stable, reliable, and efficient data transmission.

The DSL ports comply with ITU-T G.993.2 standard and are compatible with G.992.1/2/3/4/5, supporting VDSL2, ADSL, ADSL2, and ADSL2+. Using digital subscriber line technology, terminal devices can access the Internet through DSL links. The DSL interfaces are connected in pairs, with one end as the Central Office (CO) and the other as Customer Premises Equipment (CPE), transmitting Ethernet signals over a 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, while providing high-bandwidth, low-latency, and reliable communication for industrial automation.

This Ethernet extender adopts an intrinsically safe design and embedded installation, and supports operating temperatures from -20°C to +75°C. With industrial-grade components and having passed rigorous functional, temperature, safety, and EMC testing, Cport1204A-2GF-2GT ensures reliable performance in harsh industrial environments. It is widely applicable in industrial automation, integrated energy, smart cities, intelligent transportation, smart factories, and other industrial applications.

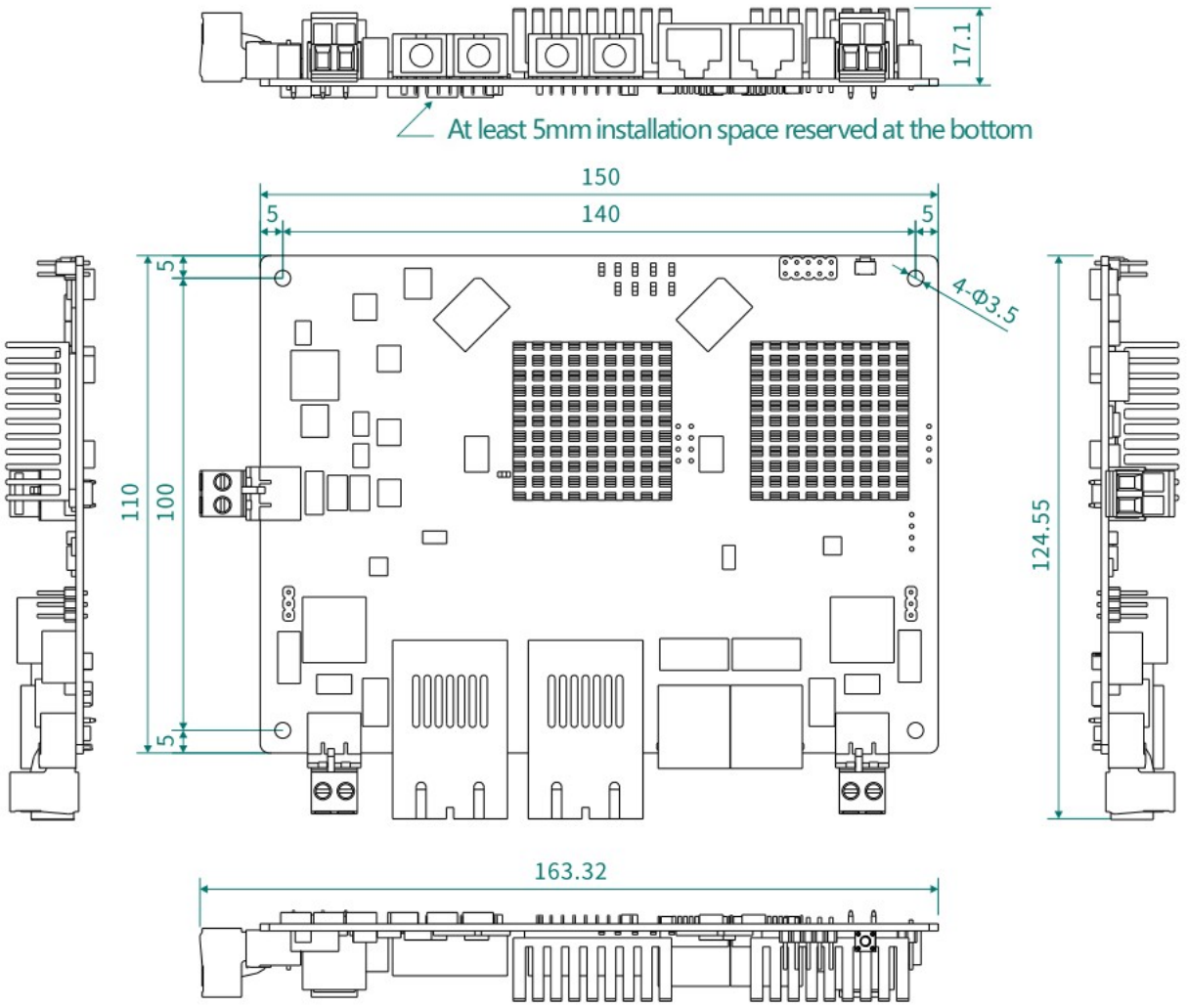
## Technical Specifications

| Switch Capability | |
|---|---|
| Processing Type | Store-and-Forward |
| 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<br>Number of ports: 2 DSL ports<br>Connection: 2-position 5.08mm pitch terminal block<br>Maximum transmission rate: Upstream 100Mbit/s, Downstream 100Mbit/s (theoretical, 30a)<br>Transmission distance: 300m @ 80Mbps, 1km @ 34Mbps, 2km @ 8Mbps, 3km @ 2Mbps<br>(Tested with HSYV 2×0.5 twisted pair, for reference only; shorter distances and higher-quality cables can achieve higher transmission rates)<br>Cable requirements: 2-core twisted pair telephone line with wire gauge ≥0.5mm², twist pitch <25mm<br>CO/CPE setting: DSL1 default as Customer Premises Equipment (CPE), DSL2 default as Central Office (CO), configurable via jumper cap<br>Bypass function: DSL1 and DSL2 form a Bypass pair, conducting in power-off state |
| Gigabit Fiber port | 2 × 1000Base-X fiber ports, compatible with 100Base-FX, SC/FC/ST, supporting multimode duplex fiber up to 550m or single-mode duplex fiber up to 20km, with optional simplex/duplex fiber and transmission distances of 40/60/80km |
| Gigabit Copper port | 2 × 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI/MDI-X |
| Button | Factory reset |

| | |
|---|---|
| Status LEDs | Power indicator, DSL port indicator, Ethernet port indicator, support for external indicator signal output |
| **Power Supply** | |
| Input Voltage | DC12~24V |
| Power Consumption | < 14W@DC12V |
| Connection | 2-position 5.08mm pitch terminal block |
| Protection | Overcurrent protection, overvoltage protection, reverse polarity protection, pre-charge |
| **Physical Characteristics** | |
| Dimensions | 150×110×17.1 mm (connectors excluded) |
| Installations | Embedded |
| Weight | About 0.17kg |
| **Working Environment** | |
| Operating Temp | -20°C ~+75°C |
| Storage Temp | -40°C ~+85°C |
| Relative Humidity | 5%~95% (non-condensing) |

## Dimensions

Unit: mm



## Ordering Information

| Standard Model | DSL Port | 1G Fiber Port | 1G Copper Port | Input Voltage |
|---|---|---|---|---|
| Cport1204A-2GF-2GT | 2 | 2 | 2 | DC12~24V |



### Contact Us

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