

## Product Datasheet

# 2-port Gigabit Single-mode Dual Fiber Media Converter

(1110-SCX-O)



## OVERVIEW

The 1110-SCX-O series is a gigabit fiber media converter. It has 1\*10/100/1000Base-T port and 1\*1000M uplink SC/LC fiber port. User can select different optical modules, such as multi-mode dual fiber, single-mode dual fiber, and single-mode single fiber. The media converter adopts the enterprise-class Taiwan Realtek company's carrier-grade chip solution, which has stable performance, good quality and high cost performance. It is suitable for optical fiber access application scenarios such as security monitoring, wireless coverage, intelligent transportation, and safe cities to form a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

## FEATURE

### ■ Gigabit photoelectric Ethernet conversion transmission

- ◇ Support gigabit RJ45 port and gigabit fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

### ■ Easy to use and simple to maintain

- ◇ Compatible with IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X network protocol, gigabit R45 port rate auto-negotiation
- ◇ Support full-duplex/half-duplex working mode with auto-negotiation function
- ◇ Automatic identification of twisted pair MDI/MDI-X cross lines and parallel lines
- ◇ Plug and play, no configuration required, centralized power supply and centralized connection management through 2U-14 slot rack
- ◇ LED working status indication for network diagnosis and fault checking, reducing maintenance workload.

### ■ Stable and reliable

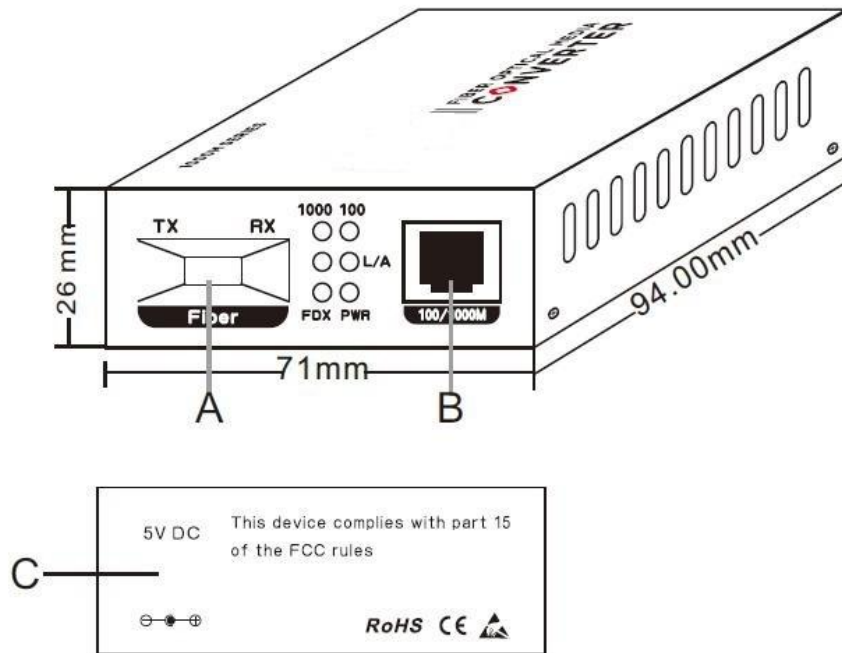
- ◇ Low power consumption, No fan , galvanized steel casing.
- ◇ CCC, CE, FCC, RoHS.
- ◇ Comply with telecommunication network access requirements, and have the telecommunications equipment network access license of the MIIT.

## TECHNICAL SPECIFICATION

| Model                            | 1110-MCX-O   | 1110-SCX-O                               | 1110S-SCX-O-A/B                            |
|----------------------------------|--|--|--|
| <b>Interface Characteristics</b> |  |  |  |
| Interface                        | 1* 10/100/1000Base-T RJ45 port (Data)<br>1*1000M uplink SC/LC fiber port (Data)  |  |  |
| Ethernet Port                    | 10/100/1000Base-T, auto-sensing, Full/half duplex MDI/MDI-X self-adaption  |  |  |
| Twisted Pair Transmission        | 10BASE-T: Cat3,4,5 UTP(≤100 meter)<br>100BASE-TX: Cat5 or later UTP(≤100 meter)<br>1000BASE-T: Cat5e or later UTP(≤100 meter)        |  |  |
| Optical Fiber Port               | 1.25Gbps, multi-mode dual fiber SC port  | 1.25Gbps, single-mode dual fiber SC port | 1.25Gbps, single-mode single fiber SC port |
| Optical Cable/Distance           | Multi-mode: 850nm / 0 ~ 500m, 1310nm / 0 ~ 2km;<br>Single-mode: 1310nm / 0 ~ 40km, 1550nm 0 ~ 120km.                                 |  |  |
| <b>Chip Parameter</b>            |  |  |  |
| Network Protocol                 | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX<br>IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x          |  |  |
| Forwarding Mode                  | Store and forward(Full wire speed)   |  |  |
| Switching Capacity               | 2.0Gbps (Non-blocking)   |  |  |
| Forwarding Rate@64byte           | 3.0Mpps  |  |  |
| MAC                              | 2K   |  |  |
| Buffer Memory                    | 1M   |  |  |
| Jumbo Frame                      | 1632byte   |  |  |
| LED Indicator                    | Power: PWR (Green), ON/OFF, Data: L/A (Green): ON/OFF/Blink, Half/full duplex: FDX (Green) , ON/OFF, Speed: 100/1000 (Green) ,ON/OFF |  |  |
| <b>Power Supply</b>              |  |  |  |
| Total PWR / Input                | 3.5W/(5VDC)  |  |  |

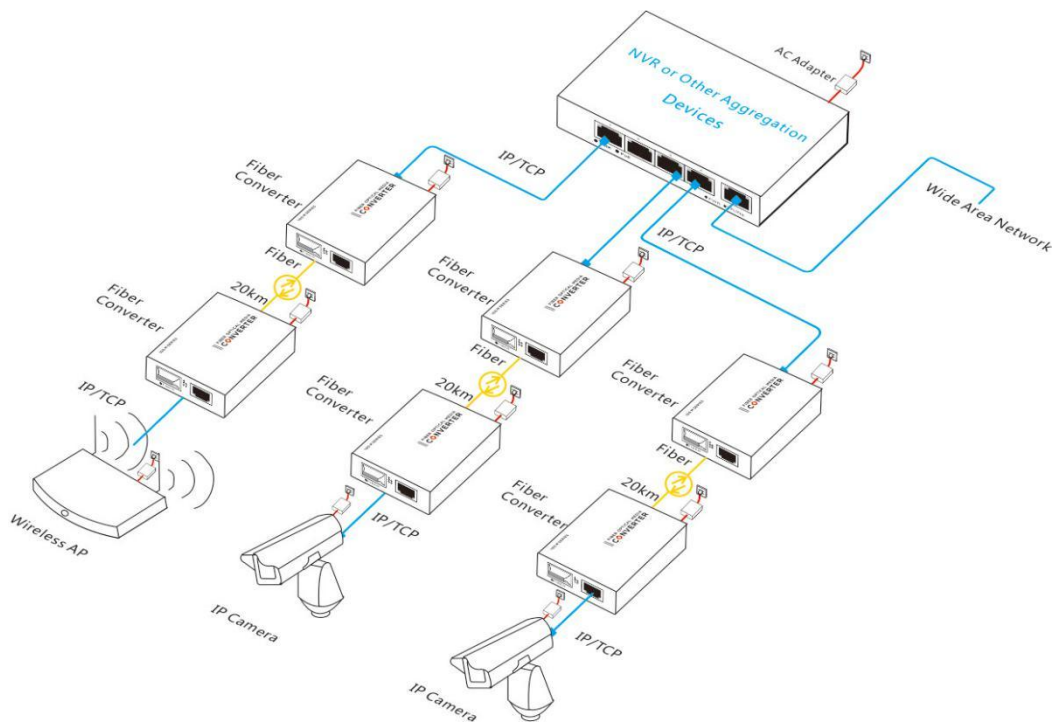
|                                     |   |
|-------------------------------------|---|
| Voltage                             |   |
| Power Consumption                   | Standby<1W,Full Load<4W   |
| <b>Physical Parameter</b>           |   |
| Operation TEMP / Humidity           | -20~+55°C, 5%~90% RH Non condensing                                 |
| Storage TEMP / Humidity             | -40~+85°C, 5%~95% RH Non condensing                                 |
| Dimension (L*W*H)                   | 94*71*26mm  |
| Net /Gross Weight                   | <0.3kg / <0.5kg   |
| Installation                        | Desktop, 2U-14 Rack-mounted   |
| <b>Certification &amp; Warranty</b> |   |
| Lightning Protection                | Lightning protection: 4KV 8/20us, Protection level: IP30            |
| Certification                       | CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS |
| Warranty                            | 3 years, lifelong maintenance.                                      |

## DIMENSION



- A. 1\*10/100/1000M RJ45 port**      **B. 1.25G SC fiber port**  
**C. DC5V power input port**

## APPLICATION



## ORDERING INFORMATION

| Model         | Description  |
|---------------|--|
| 1110-MCX-O    | Gigabit <b>multi-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 850nm wavelength, default transmission distance 0-550m. External power supply: AC100-240V input.  |
| 1110-SCX-O    | Gigabit <b>single-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.  |
| 1110S-SCX-O-A | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.  |
| 1110S-SCX-O-B | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1550nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.  |
| 1110-MCX-K    | Gigabit <b>multi-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 850nm wavelength, default transmission distance 0-550m. Support one-click switch LFP enable and store-forward / pass-through forwarding. External power supply: AC100-240V input.   |
| 1110-SCX-K    | Gigabit <b>single-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. Support one-click switch LFP enable and store-forward / pass-through forwarding. External power supply: AC100-240V input. |

|               |  |
|---------------|--|
| 1110S-SCX-K-A | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. Support one-click switch LFP enable and store-forward / pass-through forwarding. External power supply: AC100-240V input. |
| 1110S-SCX-K-B | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. Total power is 4W, 1550nm wavelength, default transmission distance 0-20km. Support one-click switch LFP enable and store-forward / pass-through forwarding. External power supply: AC100-240V input. |
| 1110-MLX-F    | Gigabit <b>multi-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. Total power is 4W, 850nm wavelength, default transmission distance 0-550m. External power supply: AC100-240V input.   |
| 1110-SLX-F    | Gigabit <b>single-mode dual fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.   |
| 1110S-SLX-F-A | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. Total power is 4W, 1310nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.   |
| 1110S-SLX-F-B | Gigabit <b>single-mode single fiber</b> media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. Total power is 4W, 1550nm wavelength, default transmission distance 0-20km. External power supply: AC100-240V input.   |

# PACKING LIST

| PACKING LIST | CONTENT   | QTY | UNIT |
|--------------|---|-----|------|
|              | 2-port gigabit single-mode dual fiber media converter | 1   | SET  |
|              | User Guide  | 1   | PC   |
|              | Warranty Card   | 1   | PC   |