



陈泽科技有限公司

STEPHEN TECHNOLOGIES CO., LIMITED

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# MEDIA CONVERTER CATALOG

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## >>> Ethernet media converters series

- A. 10/100mbps fast ethernet media converters
- B. 10/100mbps Rack mount media converters
- C. Gigabit ethernet media converters
- D. E1 media converters

# Warranty and sample Policies

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## Chima's Warranty Policy

For all of Chima's Dealers, resellers, Distributors, Chima offers a warranty of ONE year.

>>> Expire date be from the date of receipt of shipment by client.

>>> Regular Replacements to be shipped with the shipment of re-orders. All the cost for Regular Replacements be furnished by Chima.

>>> Urgent Replacements to be shipped within 2 weeks. All the cost for Urgent Replacements be furnished by clients.

## Chima's Sample Policy

>>> Chima's samples are all charged. Regularly samples' costs are 10% higher than that for bulks.

Different samples, different prices. For those samples that needs to be produced particularly, an extra Production cost shall be applied.

>>> Sample's costs are to be returned in a re-order based on a MOQ.

>>> Free samples apply to Chima's partners that are at a long term business relation.

## Description:

STE-8400M Media Converter is 10/100/1000Mbps fast Ethernet converter. The converter mediates between a 10/100/1000Base-Tx segment and a 1000Base-FX segment. It is primarily designed for large, higher speed/ bandwidth demanding workgroups that require expansion of the Ethernet network. It can extend the conventional 10M Ethernet or 100/1000M Fast Ethernet to 20Km-120Km via the fast Ethernet Fiber-optical Line. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network.

## 10/100/1000mbps ethernet fiber media converter Single fiber, Birectional

### STE-8400M



## Features

- >>> Provide one fiber connector and one UTP connector
- >>> Fully Complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-FX standard
- >>> Auto-detection of half/full duplex transfer mode for Tx port
- >>> Auto-negotiation of 10/100/1000Mbps rate and Auto-MDI/MDIX for Tx port
- >>> Provide switch configuration of half/full duplex transfer mode for Fx port
- >>> Extend fiber distance up to 2km for multi-mode fiber and 20-120km for single-mode fiber
- >>> Indication light: RX, TX, FX, 1000, POW, 10/100
- >>> Easy-to-view LED indicators provides status to easily monitor network activity
- >>> Internal power supply

## Description:

STE-8400M Media Converter is 10/100/1000Mbps fast Ethernet converter. The converter mediates between a 10/100/1000Base-Tx segment and a 1000Base-FX segment. It is primarily designed for large, higher speed/ bandwidth demanding workgroups that require expansion of the Ethernet network. It can extend the conventional 10M Ethernet or 100/1000M Fast Ethernet to 20Km-120Km via the fast Ethernet Fiber-optical Line. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network.

## 10/100/1000mbps ethernet fiber media converter Dual fiber, single or multimode

### STE-8401M



## Features

- >>> Provide one fiber connector and one UTP connector
- >>> Fully Complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-FX standard
- >>> Auto-detection of half/full duplex transfer mode for Tx port
- >>> Auto-negotiation of 10/100/1000Mbps rate and Auto-MDI/MDIX for Tx port
- >>> Provide switch configuration of half/full duplex transfer mode for Fx port
- >>> Extend fiber distance up to 2km for multi-mode fiber and 20-120km for single-mode fiber
- >>> Indication light: RX, TX, FX, 1000, POW, 10/100
- >>> Easy-to-view LED indicators provides status to easily monitor network activity
- >>> Internal power supply

STE-FMC is a freestanding 10/100mbps Media Converter that comes in two models, the one is for single fiber, bidirectional, and the other is for dual fiber, single mode. It supports up to 20km, 40km, 80km, 120km, etc.

## 10/100mbps standalone ethernet fiber media converter

### STE-FMC



STE-SFMC is single fiber 10/100mbps Media Converter that supports up to 20km, 40km, 80km, etc. The STE-SFMC adopts WDM, enables the transmission and receive with only one fiber model. Makes the lowest fiber cost. It is the best choice for long distance transmission.

## 10/100mbps standalone ethernet fiber media converter

### STE-SFMC



## Features

10/100 Base-Tx to 100 Base-Fx Media Converter

It translates transmission signals from a twisted-pair 10 Base-T or 100Base-TX cable to 100 Base-FX fiber optic cable.

Its extends transmission distance beyond the 100m limitation of copper wire up to 100km by single mode fiber optic module.

Complies with IEEE802.3 10Base-T, IEEE802.3U

operation style: full and half duplex auto-negotiation

optical fiber interface : Multi-mode (wavelength 850nm, 1300nm) Single mode (wavelength 1310nm, 1550nm)

Twiste- pair interface: NODE and HUB or SWITCH (5utp)

Distance: Multi-mode: 2Km 5Km

Single mode: 25Km 60Km 80Km 120Km

STE-MSMC is a multi mode to single mode/ single mode to multi mode 10/100mbps Media Converter that comes in two models, the one is for single fiber, bidirectional, and the other is for dual fiber, single mode. It supports up to 20km, 40km, 80km, etc.

## 10/100mbps multimode to singlemode standalone ethernet fiber media converter

### STE-MSMC



#### Features:

Complies with IEEE 802.3z standard

Supports: Multi-mode SC Connector Single Mode SC Connector Fiber 1300nm  
 Extend fiber distance up to 40km per segment (max. possible distance of 80km with converter situated in middle of two segments)

Compatible with other Multi-mode to Single Mode devices

## 10/100mbps rack converter card

### STE-MCM



STE-MCM is the inserting cards of the rack mount media converters, one rack mount can insert up to 16 cards, the cards can support single fiber, double fiber, single mode, dual mode, etc.

#### Features:

Complies with IEEE802.3 10Base-T, IEEE802.3U

operation style: full and half duplex auto-negotiation

optical fiber interface :

Multi-mode (wavelength 850nm, 1300nm)

Single mode (wavelength 1310nm, 1550nm)

Twisted-pair interface: NODE and HUB or SWITCH (5utp)

Distance: Multi-mode: 2Km 5Km

Single mode: 25Km 60Km 80Km 120Km



## Description:

SFM-51X Manageable Rack mount Media Converter is a 2U rack mount media converter combine with a Network Management Unit (MCU). The whole rack contains 15 pieces of media converter module and 1 piece of network managed module. Each module can be used separately, and different kind of converter module can be inserted into one rack. The rack mount media converter adopts communication isolation technology to separate the system power from the converter module totally. Guaranteed the dependability of the whole system It can extend the conventional 10M Ethernet or 100M Fast Ethernet to 20Km-120Km via the quick Ethernet Fiber-optical Line. The collective dual power supplies can ensure the uninterrupted operation of the system.

## Managed 16 ports 2.5U TX to FX Rack Mount Media Converter

### STE-51X



## Features:

It supports local console and Web Management

Every media converter module Provide one fiber connector and one UTP connector

Fully Complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX standard

Auto-detection of half/full duplex transfer mode for Tx port

Extend fiber distance up to 2km for multi-mode fiber and 20-120km for single-mode fiber

Support Local management and Remote management

Support bandwidth options control: 2.5M/5.0M、 5.0M/50M、 7.5M/75M、 10M/100M.

Auto-negotiation of 10/100Mbps rate and Auto-MDI/MDIX for Tx port

Provide configuration of half/full duplex transfer mode for Fx port and Tx port

Provide Flow Control and Link Fault Pass Through configuration

Easy-to-view LED indicators provides status to easily monitor Local and Remote network activity

AC100V-AC240V and DC-48V is optional



## UnManaged 16 ports 2.5U TX to FX Rack Mount Media Converter

### STE-51P



#### Description:

STE-51P provides 16 Fast Ethernet media converter in a 2.5U Chassis configuration. It features hot swappable 10/100BASE-TX-to-FX Line Card and redundant Power Supply. It extends network data transmission distances beyond the 100 meters limitation distances of copper wire up to 100 kilometers by using Single Mode fiber optic module. The SFM-9XX-P offer 10/100Base-TX auto negotiation function for more flexible installation requirement.

#### Features

Support upto 16 (10/100 Base-Tx to 100 Base-Fx ) Slots

Its extends transmission distance beyond the 100m limitation of copper wire up to 100km by single mode fiber optic module.

It is typically used to connect fast ethernet devices, such as 10/100 Base-Tx Hubs or Switches at a long Distance upto 100km).

Auto Negotiate 10/100M, Auto Half/Full Duplex data mode.

Supports IEEE 802.3 10 Base-T, 802.3U, 100Base-TX, 100Base-FX protocols

Auto Negotiate 10/100M,

Auto Half/Full Duplex data mode.

RJ45 connector for either Straight or Cross CAT UTP Cable

Fiber Interface supporting Multimode or Single Mode Fiber Optic.

- 1.High performance bridge for 10Base-T Ethernet extension
- 2.Fully compatible with IEEE 802.3 and Ethernet Standards
- 3.E1 channel: Full and Fabrication optional, 75/120ohm optional
- 4.Ethernet Port:: 10Mbps, Full/Half Duplex Mode compatible
- 5.10Base-T LAN Interface on RJ-45 connector and MDI/MDI-X optional
- 6.Allow transmitting and receiving VLAN data packet
- 7.15000 frames per second filtering and forwarding rate
- 8.1000 MAC address LAN table, and automatic LAN table learning and aging.
- 9.Standalone and 12 slots chassis optional
10. Chassis support E1/10Base-T Converter and E1/V.35 Converter
11. Power of Chassis: 2 Slots for slide in power supplier module, AC or DC power supplier module, Redundant Power supported
12. AC220V±20% or DC-48V power input

## E1 to 10Base-T Protocol Converter

### STE-E1PC

#### LAN port

1. Standard: Conforms to IEEE802.3 / 10Base-T Ethernet
2. Data rate: 10Mbps(20Mbps/10Base-T in Full duplex topology)
3. Compatible on Full/Half duplex topology
4. Connectors: RJ-45 Connector
5. Transfer distance: <150m

#### E1 port

1. Standard: ITU G.703, G.704,
2. Jitter Performance: According to ITU G.823
3. Bit rate: N×64Kbps, N=1~31 (Fractional Mode) or 2.048Mbps(Full Mode)
4. Line Code: HDB3
5. Line Impedance: 75/120ohms optional
6. Pulse Amplitude: Nominal 2.37V±10%



## 4 E1 to 10Base-T Protocol Converter

### STE-4E1PC

#### E1 interface:

- 1.Compatible with ITU-T G.703 /
- 2.Interface rate: 2048 Kbit/s±50ppm
- 3.HDB3 code /4.Jitter performance:ITU-T G.823 /5.Impedance:75Ω (Imbalance) /6.Physical Interface:BNC coaxial plug

#### Ethernet Interface:

- Comply with IEEE802.3/10Base-T standard /
- 10Base-T(UTP) Full duplex Filter and transmit rate up to 15,000 pps /Frame buffer:256 frames
- Throughput delay:1 frame /Physical interface:RJ-45
- Power supply and environment: Local power supply: 220V AC or -48V . DC or +24V DC /Power consume: < 5W /Humidity:5%-95%(no condense)
- .Temperature:-5℃- +45℃



## E1 to V.35 Protocol Converter

### STE-E1PC



#### Description:

- 1.Support V.35 synchronous data rate:2048Kbps,non-frame mode NX64Kbps (n=1……31) ,frame mode
- 2.Support cascade connection, can transmit several V.35 data through 1 E1 via equipment cascade connection
- 3.User can assign n continuous time-slot as transmission channel arbitrarily, simple and convenient system configuration ,alarm designation and comprehensive maintain funtion
- 4.AC/DC alternative

#### E1 interface:

nominal rate: 2.048Mbps HDB3 code

Circuit impedance:75Ω (imbalance)

Frame choice:non-frame mode,frame mode,CRC4 multiple frame

Receive level:0~43dB

Transmit clock mode: internal clock mode ,loop back clock mode,external clock mode

Overvoltage and overcurrent protection:internal overvoltage protection and PTC overcurrent protection

#### V.35 interface :

Data rate: non-frame mode :2048Kbps

frame mode:NX64Kbps, N=1…31

Clock mode: DCE mode and DTE mode

Connector: M34 aperture seat

Handshake control signal:CTS/DSR/DCD efficient,adopt when connect with DTE equipment CTS/DTR efficient ,adopt when connect with DCE equipment

transmit the control signal to the opposite end transparently (efficient in frame mode)

Time -slot configuration

Data loop back: cause V.35 interface of local loop back to data user

E1 loop back: cause E1 interface of local loop back to data user

REM loop back: cause remote E1 of local loop back to local in frame mode cause local E1 of local loop back to remote data user in non-frame mode

Power supply:220VAC(100~275V)

Power consume:3W

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