HiOSO Media Converters

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Rack Type SNMP Managed Media Converter

FC830AM Managed Media Converter

Overview

HiOSO FC830AM Series belongs to 10/100M auto-adapted Fast Ethernet Fiber Media Converter (Or called Photo-electrical Conversion) with management function, which supports SNMP Protocol,Web windows administration, remote Telnet management, Com port management and software upgrade. It can supervise the working condition and configure the mode of each local media converter in the slot and remote media converter connected to the other side.

10/100M Ethernet Fiber Converter is fully in compliance with 10Base-T, 100Base-TX, 100Base-Fx and IEEE 802.3x International Standard etc. It can completely be cooperated with Network Card, Repeaters, HUB and SWITCH etc made by other suppliers, and also provide cost-efficient hardware support to the information transmission of Broad-Band private network and Fiber Optical citywide LAN.

Feature

- Supports SNMP management, Web address management and Telnet management
- Enable/Disable optical link-loss alarm function
- Four transmission modes supported
- Comply with IEEE 802.3µ 100BASE-FX/TX, IEEE802.3 10BASE-T standard
- Comply with IEEE 802.1Q VLAN protocol

- Support 10/100M, Full/Half duplex auto-negotiation
- Support MDI/MDIX auto sense
- Support transmission distance of up to 120km (Dual-fiber)
- Support over-size packets of up to 1912 Byte
- Support hot-swapable
- The cards work as standalone and rack-based Media Converters
- Single-fiber and dual-fiber devices are available

Technical Data

- Mechanical Parameters -

Size	32mm(H)x 165mm(W)x 128mm(D)
Operating temperature	-10～+55℃
Storage temperature	-40～+70℃
Power supply	AC220V / DC-48V

- Optical Parameters -

Multimode Fiber: 62.5/125, 50/125, 100/140μm	
MM2km or MM5km	Output power: -20～-18dBm
	Receiving sensitivity: <-31dBm
	Distance: 0～2km or 0～5km
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: dual-fiber
	Wavelength: 850nm/1310nm
Single-mode Fiber: 9/125, 8.3/125, 8.7/125 or 10/125μm	
25km	Distance: 0～25km
	Output power:-15～-8dBm （dual-fiber）,-14～-8dBm （single-fiber）
	Receiving sensitivity: <-34dBm（dual-fiber）, <-33dBm（single-fiber）
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber),1310nm(dual-fiber)
40km	Distance: 0～40km
	Output power: -10～-5dBm （dual-fiber）,-9～-5dBm （single-fiber）

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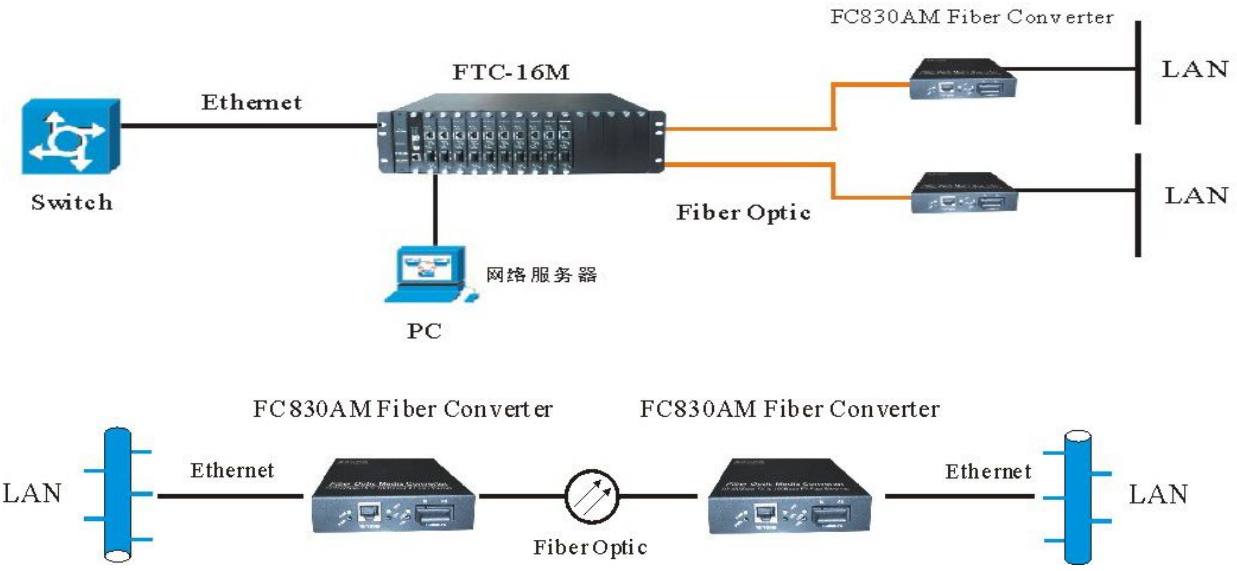
	Receiving sensitivity: < -36dBm（dual-fiber）,<-33dBm（single-fiber）
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fiber / dual-fiber
	Wavelength :1310nm/1550nm(single-fiber),1310nm(dual-fiber)
60km	Distance: 0～60km (when less than 15km, use attenuator)
	Output power:-5～0dBm（dual-fiber）,-6～0dbm（single-fiber）
	Receiving sensitivity: < -36dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber),1310nm(dual-fiber)
80km	Distance: 0～80km (when less than 15km, use attenuator)
	Output power:-8～-2dBm（dual-fiber）,-3～3dbm（single-fiber）
	Receiving sensitivity: < -36dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber),1550nm(dual-fiber)
100km	Distance: 0～100km (when less than 15km, use attenuator)
	Output power:-6～-1dBm
	Receiving sensitivity: < -38dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber),1550nm(dual-fiber)
120km	Distance: 0～120km (when less than 15km, use attenuator)
	Output power:-5～0dBm
	Receiving sensitivity: < -38dBm
	Connector: SC(standard) / FC(optional)
	Type: dual-fiber
	Wavelength: 1550nm

Typical Application

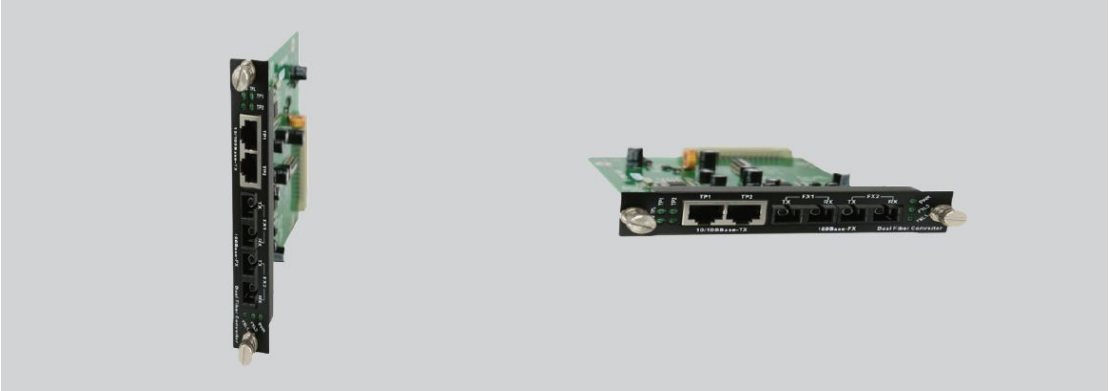


Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Distance (Km)	Fiber Interface	Power
FC830AM-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC830AMP-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Built-in AC220V/ DC-48V
FC830AMC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Module card: DC5V
FC830AM-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC830AM-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC830AMP-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Built-in AC220V/ DC-48V
FC830AMP-80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Built-in AC220V/ DC-48V
FC830AMC-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Module card DC5V
FC830AMC-S80/100/120-SC	10/100	Dual-fiber	1550	80/100/120	SC/FC	Module card

/FC		single-mode				DC5V
FC830AMS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	External DC5V/1A
FC830AMPS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Built-in AC220V/ DC-48V
FC830AMCS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Module card DC5V

FC830ADC 2 Fiber ports 2 Ethernet ports Telecom Managed Media Converter



Overview

HiOSO FC830ADC is an intelligent 10/100M adaptive fast Ethernet fiber converter (also called optical-to-electrical medium converter). It adopts two fiber ports two Ethernets port design, used as two independent fast Ethernet fiber media converters.
FC830ADC can be inserted into FTC-16M managed rack. The capacity of the rack extends from 16 converters to 32 converters, which save the space, lower the consumption.

FC830ADC can conduct mutual conversion between 10Base-T/100Base-TX twisted pair electrical signals and 100Base-FX optical signals. FC830A extends the transmission distance of a network from 100m over copper wires to 120 Km, and uses two network transmission technologies (that is, the data link layer 2 storing & forwarding mode and the physical layer 1 straight-through mode) to implement data transmission between the optical and electrical network connection mediums.
FC830ADC fiber converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- 10/100 Mbps adaptive, for the convenience of network upgrade;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting low-delay transmission;
- Supporting transmission of extra-long packets (with the maximum length of 1600 bytes);
- Supporting transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Extremely low power consumption (less than 2W), low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.
- Application

  10/100Mbps fast optical Ethernet long-distance transmission network

Technical Specifications

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km;single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Two RJ45 ports: Connected to STP/UTP category-5 twisted pairs Two fiber ports: Multi-mode – SC (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power), FXL1 (fiber 1 port link/action) FXL2 (fiber 2 port link/action) TPL (twisted pair link/action)

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	TP 100 (twisted pair: transmission rate of 100M);
Power	DC5V 1A (card)
Power consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	110mm(H)*22mm(W)*81mm(D) /(height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Distance (Km)	Fiber Interface	Link Alarm	Power
FC830ADC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	DC5V
FC830ABC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	DC5V
FC830ADC-S20/40/60- SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	DC5V
FC830ADC-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	DC5V
FC830ABC-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	DC5V
FC830ADCS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Support	DC5V
FC830ABCS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Support	DC5V

FC830AGM SNMP Managed Media Converter

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verview

HiOSO FC830AGM Series belongs to 10/100/1000M auto-adapted Ethernet Fiber Media Converter (Or called Photo-electrical Conversion) with management function, which supports SNMP Protocol, remote Telnet management, Com port management and software upgrade. It can supervise the working condition and configure the mode of each local media converter in the slot and remote media converter connected to the other side.

10/100/1000M Ethernet Fiber Converter is fully in compliance with 10Base-T, 100Base-TX, 1000Base-T, 1000Base-X and IEEE 802.3x International Standard etc. It can completely be cooperated with Network Card, Repeaters, HUB and SWITCH etc made by other suppliers, and also provide cost-efficient hardware support to the information transmission of Broadband private network and Fiber Optical citywide LAN.

Feature

- Supports SNMP management, Web address management and Telnet management
- Enable/Disable optical link-loss alarm function
- Four transmission modes are selectable
- Comply with IEEE 802.3μ 100BASE TX, IEEE802.3 10BASE-T standard and 1000Base-T/FX
- Comply with IEEE 802.1Q VLAN protocol
- Support 10/100/1000M, Full/Half duplex auto-negotiation

- Support MDI/MDIX auto sense
- Support transmission distance of up to 120km (Dual-fiber)
- Support over-size packets of up to 10240 Byte
- Support hot-swappable
- The cards work as standalone and rack-based Media Converters
- Single-fiber and dual-fiber devices are available

Technical Data

- Mechanical Parameters -

Size	32mm(H)x 165mm(W)x 128mm(D)
Operating temperature	- 10～ + 55℃
Storage temperature	- 40～ + 70℃
Power supply	AC220V / DC - 48V

- Optical Parameters -

Multimode Fiber: 62.5/125, 50/125, 100/140μm	
MM2km orMM5km	Output power: -20～ - 18dBm
	Receiving sensitivity: < - 31dBm
	Distance: 0～2km or 0～5km
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: dual-fiber
	Wavelength: 850nm/1310nm
Single-mode Fiber: 9/125, 8.3/125, 8.7/125 or 10/125μm	
25km	Distance: 0～25km
	Output power:-15～ - 8dBm （dual-fiber）,-14～ - 8dBm （single-fiber）
	Receiving sensitivity: < - 34dBm（dual-fiber）, < - 33dBm（single-fiber）
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber), 1310nm(dual-fiber)
40km	Distance: 0～40km
	Output power: -10～ - 5dBm （dual-fiber）,-9～ - 5dBm （single-fiber）
	Receiving sensitivity: < - 36dBm（dual-fiber）,<-33dBm（single-fiber）
	Connector: SC(standard) / FC(optional) /ST(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber), 1310nm(dual-fiber)

60km	Distance: 0～60km (when less than 15km, use attenuator)
	Output power: - 5～0dBm（dual-fiber）,-6～0dbm（single-fiber）
	Receiving sensitivity: < - 36dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber), 1310nm(dual-fiber)
80km	Distance: 0～80km (when less than 15km, use attenuator)
	Output power: - 8～-2dBm（dual-fiber）,-3～3dbm（single-fiber）
	Receiving sensitivity: < - 36dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber), 1550nm(dual-fiber)
100km	Distance: 0～100km (when less than 15km, use attenuator)
	Output power: - 6～-1dBm
	Receiving sensitivity: < - 38dBm
	Connector: SC(standard) / FC(optional)
	Type: single-fiber / dual-fiber
	Wavelength: 1310nm/1550nm(single-fiber), 1550nm(dual-fiber)
120km	Distance: 0～120km (when less than 15km, use attenuator)
	Output power: - 5～0dBm
	Receiving sensitivity: < - 38dBm
	Connector: SC(standard) / FC(optional)
	Type: dual-fiber
	Wavelength: 1550nm

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Distance (Km)	Fiber Interface	Power
FC830AGM-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC830AGMP-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Built-in AC220V/ DC-48V
FC830AGMC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Module card: DC5V
FC830AGM-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC830AGM-	10/100	Dual-fiber	1550	80/100/120	SC/FC	External

S80/100/120-SC/FC		single-mode				DC5V/1A
FC830AGMP-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Built-in AC220V/ DC-48V
FC830AGMP-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Built-in AC220V/ DC-48V
FC830AGMC-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Module card DC5V
FC830AGMC-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Module card DC5V
FC830AGMS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	External DC5V/1A
FC830AGMPS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Built-in AC220V/ DC-48V
FC830AGMCS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Module card DC5V

FTC-1M 1 Slot Managed Media Converter Rack

Overview

HiOSO FTC-1M is a 1-slot media converter rack. It can work with FC-16M management rack, to implement integrated management. It can also work with other types converters for pint to point communication.

Features

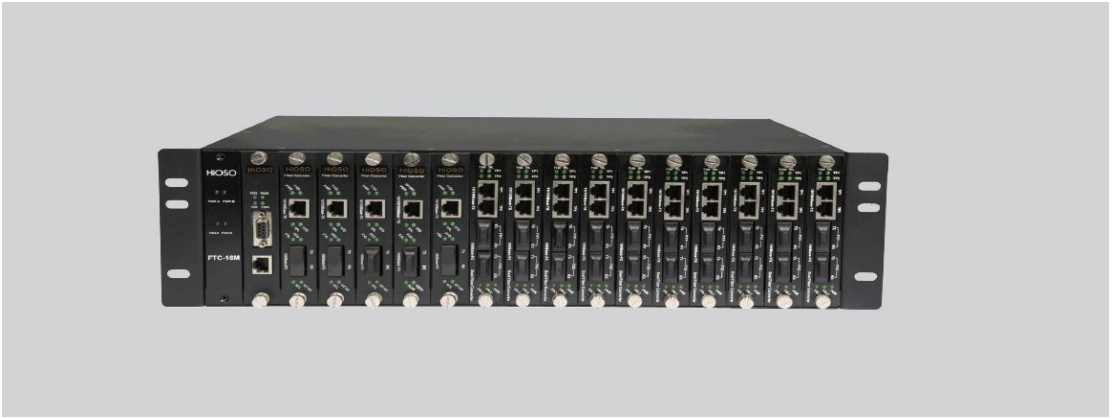
- Support hot swapping of the media converter card
- Support dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode converter cards
- Dual power supply hot backup,AC85～265V/ DC-36～-72V
- Apply to Telecom grade requirements,

- MTBF is over 100,000 hours
- Media converter cards support: FC830AMC and FC830AGMC

Ordering Information

Model	Slot qty	Structure	Height (mm)	Power supply
FTC-1M-1	1	Standalone type	38	Single power AC220V
FTC-1M-1-48	1	Standalone type	38	Single power DC-48V
FTC-1M-2	1	Standalone type	38	Dual power AC220V/DC-48V

FTC-16M 16 Slots Managed Media Converter Rack



Overview

HiOSO FTC-16M fiber converter rack (3U) is a kind of economical converter rack used in equipment rooms. The rack can accommodate a maximum of 15 different types of fiber converter module cards and one management card. The management card supports SNMP, Web, Telnet protocols. The working condition of the module cards can be seen through IE browser.

Each module card can be used independently. And different module cards can work simultaneously in the rack. Its power is supplied by active and standby power systems in a centralized manner, supporting automatic switching.

Features

- The active/standby power configuration ensures uninterruptible operation of the system.
- Supply LOAD CHARING operating mode, no switch time.
- Module cards and the management card supports hot swapping.
- Supporting two power supply modes (hot standby): AC220 85~265/ and DC -36~-72V, so that the system is applicable to multiple operating environments;
- Supporting the simultaneous operation of multiple types of module cards at different rates, greatly improving the system applicability;
- Module cards supported: FC830AMC series, M800AC management card.

Technical Specifications

Parameters	Specifications
Number of slots	16
Structure	3U rack
Power supply	AC– voltage:AC85 ~ 265V
	DC – voltage: DC -36 ~ 72V
Operating temperature	-30℃~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Rack dimensions	481mm(w)*309mm(d)*132mm(h) (width * depth * height)
Module card dimensions	25mm(w)*152mm(d)*128mm(h) (width * depth * height)

Ordering Information

Model	Slot qty	Structure	Height (mm)	Power supply
FTC-16M-1	16	19''	3U	Single power AC220V
FTC-16M-1-48	16	19''	3U	Single power DC-48V
FTC-16M-2	16	19''	3U	Dual power AC220V
FTC-16M-2-48	16	19''	3U	Dual power 48V
FTC-16M-2-48/220	16	19''	3U	Dual power AC220V/DC-48V

FC650M Managed Media Converter

Overview

HiOSO FC650M is a kind of 10/100Mbps adaptive fast Ethernet fiber converter (also called optical-to-electric medium converter) with a built-in four-port 10/100Mbps adaptive switch, which can implement mutual conversion between four independent 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal.

FC650M can extend the transmission distance of a network from 100m over copper wires to 100Km (single-mode full-duplex mode). This type of fiber converter supports two types of network connection medium: 10/100Base-TX and 100Base-FX. FC650M can implement data transmission between two types of network connection medium. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10/100Mbps Ethernet network, for the convenience of network upgrading;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing four independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- 802.1Q tag based VLAN(up to 4 VLAN)

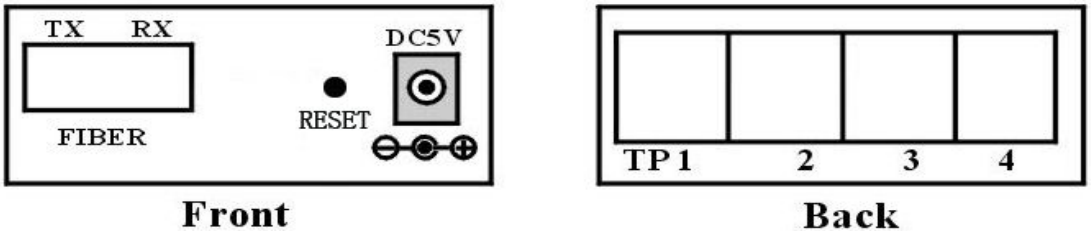
- IGMP snooping V1 V2
- WEB management
- Cisco-like CLI interface
- Traffic Management and Qos
- 802.1p 4 egress priority queues
- Rate limiting
- Configurate IGMP snooping time and priority
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps Ethernet long-distance transmission network

Pictures

External power



Front Back

Technical Specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission Distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	Four RJ45 connector:connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)

Conversion mode	Medium conversion, storing and forwarding
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), RUN (CPU run) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/4100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)
Power	DC5V/1A (external)
Power consumption	2.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*104mm(Width)*119mm(Depth) (external power)

FC1050M Fiber Converter

Overview

HiOSO FC1050M(Managed Ethernet Switch) is a kind of 10/100/1000Mbps adaptive gigabit Ethernet fiber converter (also called optical-to-electric medium converter) with a built-in four-port auto crossover MDI/MDI-X 10/100/1000Mbps adaptive switch, which can implement mutual conversion between four independent 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-X optical signal. FC1050M can extend the transmission distance of a network from 100m over copper wires to 100Km (single-mode full-duplex mode).

This type of fiber converter supports two types of network connection medium: 10Base-T/100Base-TX/1000Base-T and 1000Base-X. With the application of the switching technology and the storing & forwarding technology, FC1050Mcan implement data transmission between two types of network connection medium. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10/100/1000Mbps Ethernet network, for the convenience of network upgrading;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing four independent 10/100/1000Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supports IGMP v1/v2/v3 and MLD v1/v2 snooping
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode

and single-fiber single-mode, expanding the requirements of users;

- 802.1Q tag based VLAN(up to 4 VLAN)
- 802.1P 4 egress priority queues

Network Management

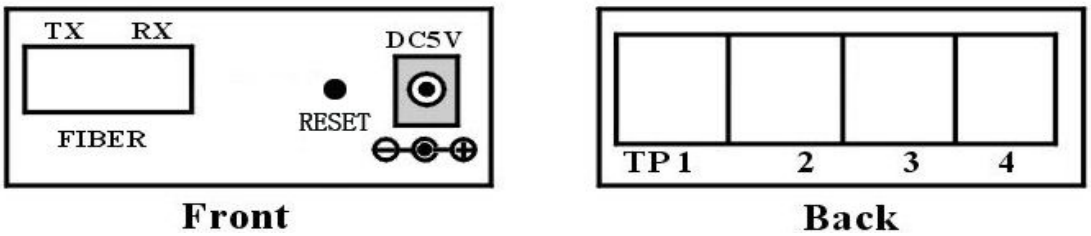
- Support WEB management
- Cisco-like CLI interface
- Traffic Management and QOS
- Rate limiting
- Configurate IGMP snooping time and priority

Application

10/100/1000Mbps Ethernet long-distance transmission network

Pictures

External power



Front Back

Technical Specifications

Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3ab 1000Base-T Gigabit Ethernet, IEEE 802.3z 1000Base-SX/LX ,IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree protocol
Wavelength	850nm/1310nm/1550nm
Transmission Distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	Four RJ45 connector: connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm)

	Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding
Maximum frame size	1522 bytes including tag/CRC
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power),FX LINK/ACT (fiber connection/action),FDX (FX full duplex mode),TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/41000 (1/2/3/4-port twisted pairs, with a transmission rate of 1000M)
Power	DC5V/2A (external)
Power consumption	5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*104mm(Width)*119mm(Depth) (external power)

Ordering Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC1050M-M2-SC/ST	10/100/1000	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V
FC1050M S20/40/60 -SC/FC	10/100/1000	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V
FC1050M S80/100/120-SC/FC	10/100/1000	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V
FC1050MS S20/40/60-SC	10/100/1000	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V
FC1050MS S80/100-SC	10/100/1000	Single-fiber single-mode	1310/1550	80/100	SC	External DC5V

Node Type Media Converter

FC650E 2 fiber ports+1 RJ45 port Node Media Converter

Overview

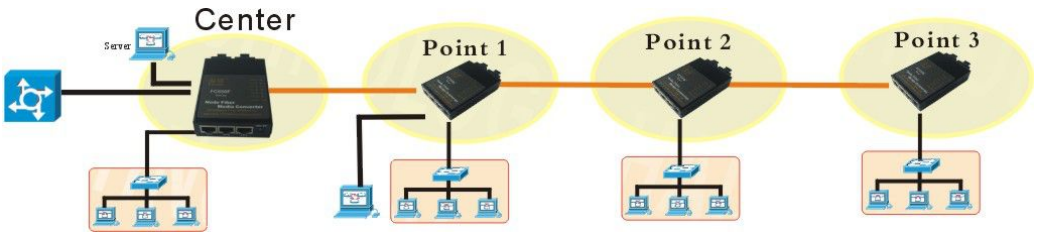
HiOSO FC650E is a kind of 10/100Mbps adaptive fast Ethernet node type fiber media converter, with 1 10/100Mbps adaptive switch, which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. FC650F can extend the transmission distance of a network from 100m over copper wires to 120Km. This type of fiber converter supports two different types of network connection media types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, this kind of converter supports transmission in dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Provide electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Support the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Support Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Support Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period of time;
- Support multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps fast Ethernet long-distance transmission network



Technical Specifications

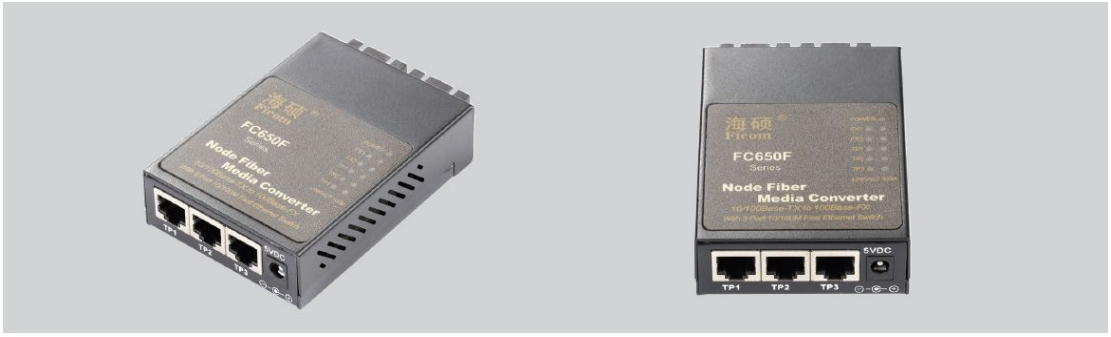
Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	1 RJ45 connector, connected to STP/UTP category-5 twisted pair Two fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3 LINK/ACT (1/2/3-port twisted pairs connection action) TP1/2/3100 (1/2/3-port twisted pairs, with a transmission rate of 100M)
Power	DC5V/1A (external)
Power consumption	3.5W
Operating temperature	-10~55℃

Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*70mm(Width)*98mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC650EM2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC650ES20/40/60 -SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC650ES80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC650FS-S20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V/1A
FC650ES-S80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC5V/1A

FC650F 2 fiber ports+3 RJ45 ports Media Converter



Overview

HiOSO FC650F is a kind of 10/100Mbps adaptive fast Ethernet node type fiber media converter, with a built-in 3-port 10/100Mbps adaptive switch, which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. FC650F can extend the transmission distance of a network from 100m over copper wires to 120Km.

This type of fiber converter supports two different types of network connection media types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing &

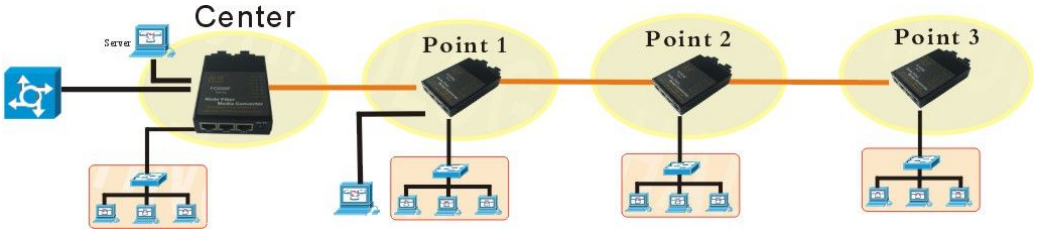
forwarding technology, this kind of converter supports transmission in dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Provide 3 independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Provide electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Support the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Support Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Support Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period of time;
- Support multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps fast Ethernet long-distance transmission network



Technical Specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km;

	Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	1/3 RJ45 connector, connected to STP/UTP category-5 twisted pair Two fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3 LINK/ACT (1/2/3-port twisted pairs connection action) TP1/2/3100 (1/2/3-port twisted pairs, with a transmission rate of 100M)
Power	DC5V/1A (external)
Power consumption	3.5W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*70mm(Width)*98mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC650FM2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC650FS20/40/60 -SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC650FS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC650FS-S20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V/1A
FC650FS-S80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC5V/1A

FC660F 2 fiber ports+3 RJ45 ports Media Converter

Overview

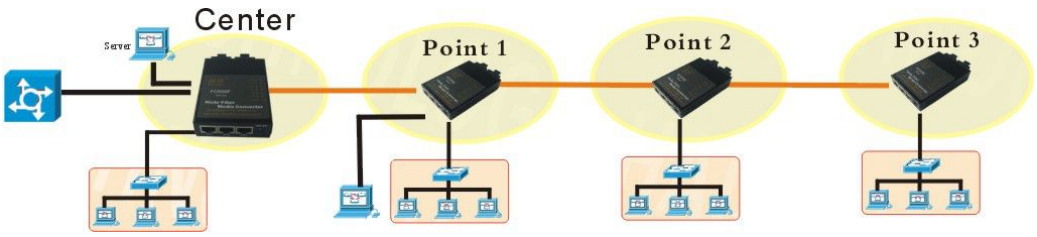
FC660F Fiber Media Converter supports 2 10/100M fiber ports and 4 10/100M RJ45 ports. It can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. FC660F can extend the transmission distance of a network from 100m over copper wires to 120Km. With the application of the switching technology and the storing & forwarding technology, this kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Provide four RJ45 ports, to implement electrical interface backup and multi-user access;
- Provide electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Support the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Support Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Support Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period of time;
- Support multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps fast Ethernet long-distance transmission network



Technical Specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	4 RJ45 ports, connected to STP/UTP category-5 twisted pair 2 fiber ports: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX1/FX2 LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX1/FX2 100 (Fiber, with a transmission rate of 100M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection/action) TP1/2/3/4 100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)
Power	DC5V
Power consumption	3.5W
Operating temperature	-10~55℃

Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*70mm(Width)*98mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC660FM2-SC	10/100	Dual-fiber multi-mode	1310	2	DC5V
FC660FS20/40/60 -SC	10/100	Dual-fiber single-mode	1310	25/40/60	DC5V
FC660FS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	DC5V
FC660FS-S20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	DC5V
FC660FS-S80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	DC5V

FC760F Node Type Fiber Media Converter

Overview

FC760F Fiber Media Converter supports 2 10/100/1000M fiber ports and 4 10/100M RJ45 ports. It can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 1000Base-FX optical signal. FC760F can extend the transmission distance of a network from 100m over copper wires to 120Km. With the application of the switching technology and the storing & forwarding

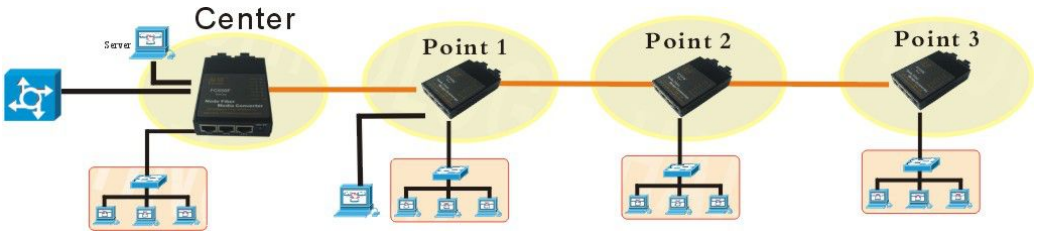
technology, this kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps, 100Mbps and 1000Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Provide four independent 10/100Mbps adaptive RJ45 ports, to implement electrical interface backup and multi-user access;
- Provide electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Support the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Support Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Support Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period of time;
- Support multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100/1000Mbps fast Ethernet long-distance transmission network



Technical Specifications

Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km;

	Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	4 RJ45 ports, connected to STP/UTP category-5 twisted pair 2 fiber ports: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX1/FX2 LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX1/FX2 1000 (Fiber, with a transmission rate of 1000M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection/action) TP1/2/3/4 100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)
Power	DC12V
Power consumption	5W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*96mm(Width)*120mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC760FM2-SC	10/100/1000	Dual-fiber multi-mode	1310	2	DC12V
FC760FS20/40/60 -SC	10/100/1000	Dual-fiber single-mode	1310	25/40/60	DC12V
FC760FS80/100/120-SC	10/100/1000	Dual-fiber single-mode	1550	80/100/120	DC12V
FC760FS-S20/40/60-SC	10/100/1000	Single-fiber single-mode	1310/1550	25/40/60	DC12V
FC760FS-S80/100-SC	10/100/1000	Single-fiber single-mode	1310/1550	80/100	DC12V

FC1060F Node Type Fiber Media Converter

Overview

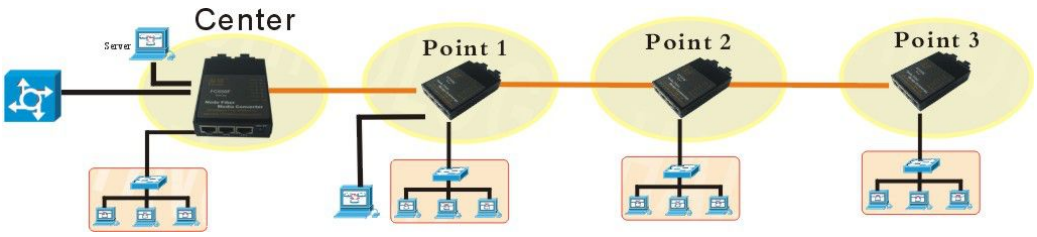
FC1060F Fiber Media Converter supports 2 10/100/1000M fiber ports and 4 10/100/1000M RJ45 ports. It can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 1000Base-FX optical signal. FC1060F can extend the transmission distance of a network from 100m over copper wires to 120Km. With the application of the switching technology and the storing & forwarding technology, this kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps, 100Mbps and 1000Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Provide four independent 10/100/1000Mbps adaptive RJ45 ports, to implement electrical interface backup and multi-user access;
- Provide electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Support the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Support Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Support Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period of time;
- Support multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100/1000Mbps fast Ethernet long-distance transmission network



Technical Specifications

Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	4 RJ45 ports, connected to STP/UTP category-5 twisted pair 2 fiber ports: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX1/FX2 LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX1/FX2 1000 (Fiber, with a transmission rate of 1000M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection/action) TP1/2/3/4 1000 (1/2/3/4-port twisted pairs, with a transmission rate of 1000M)
Power	DC12V
Power consumption	5W

Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*96mm(Width)*120mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC1060FM2-SC	10/100/1000	Dual-fiber multi-mode	1310	2	DC12V
FC1060FS20/40/60 -SC	10/100/1000	Dual-fiber single-mode	1310	25/40/60	DC12V
FC1060FS80/100/120-SC	10/100/1000	Dual-fiber single-mode	1550	80/100/120	DC12V
FC1060FS-S20/40/60-SC	10/100/1000	Single-fiber single-mode	1310/1550	25/40/60	DC12V
FC1060FS-S80/100-SC	10/100/1000	Single-fiber single-mode	1310/1550	80/100	DC12V

Ring Type Fiber Media Converter

FC650R Ring Type Fiber Media Converter

Overview

HiOSO FC650R series Ring type Media Converter is designed to meet requirements of multi fiber access network. It provides 2 100BASE-FX fiber ports and 3 10/100BASE-TX RJ45 ports, and one Console port, which provide not only point to point network connection, but also point to multi-point chain network. It has extend the transmission distance of a network from 100m over copper wires to 120Km (single-mode full duplex) and is applied to highway network system, mine communication system and other chain multi-point networks.

Features

- Provide two 10/100M fiber ports, three 10/100M RJ45 ports
- Support gigabit fiber Hiper-Ring network
- Support 128 ring network nodes
- Support redundant ring network protection (switching time<50ms, RSTP/STP
- Support WEB management, RSR (Rapid Super Ring)
- Working temperature is -10℃～70℃
- Supporting multiple types of fiber ports, such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users

Technical Specifications:

Parameters	Specifications
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m（optical fiber size 62.5/125μm）/550m(optical fiber size 50/125μm)

	Dual-fiber single-mode: 10/20/40/60/80/100/120Km Single-fiber single-mode: 10/20/40/60/80Km Category-5 twisted pairs : 100m
Port	3 RJ45 port: Connected to STP/UTP category-5 twisted pairs 2 fiber port: Multi-mode – SC (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
MAC table	1K
Buffer space	512Kbit
Delay	<10us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER(PWR)， FX LINK1/2（fiber link/action），TP LINK1000 1/2/3(twisted pair link/action 1000M)，TP LINK/ACT1/2/3 (twisted pair packet forwarding link/action)
Power	DC 12V
Power consumption	5W
Operating temperature	-10~70℃
Operating humidity	5%~90%
Storage temperature	-40~80℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*96mm(W)*120mm(D)/ (height * width * depth) (external power)

Order Information

Type	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC650RM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC12V
FC650RS20/40/60-SC	10/100	Dual-fiber single-mode	1310	25/40/60	SC	External DC12V

FC650RS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC	External DC12V
FC650RSS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC12V
FC650RSS80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC12V

FC750R Ring Type Fiber Media Converter

Overview

HiOSO FC750R series Ring type Media Converter is designed to meet requirements of multi fiber access network. It provides 2 1000BASE-SX/LX fiber ports and 3 10/100BASE-TX RJ45 ports, and one Console port, which provide not only point to point network connection, but also point to multi-point chain network. It support WEB management and RSR (Rapid Super Ring) and has extend the transmission distance of a network from 100m over copper wires to 120Km (single-mode full duplex) and is applied to highway network system, mine communication system and other chain multi-point networks.

Feature

- Provide two 10/100/1000M fiber ports, three 10/100M RJ45 ports
- Support gigabit fiber Hiper-Ring network
- Support 128 ring network nodes
- Support redundant ring network protection (switching time<50ms, RSTP/STP
- Support WEB management, RSR (Rapid Super Ring)
- Working temperature is -10℃～70℃
- Supporting multiple types of fiber ports, such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users

Technical Specification

Parameters	Specifications
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T 、 IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m（optical fiber size 62.5/125μm）/550m(optical fiber size 50/125μm) Dual-fiber single-mode: 10/20/40/60/80/100/120Km Single-fiber single-mode: 10/20/40/60/80Km Category-5 twisted pairs : 100m
Port	3 RJ45 port: Connected to STP/UTP category-5 twisted pairs 2 fiber port: Multi-mode – SC (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	<10us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER(PWR)， FX LINK1/2（fiber link/action）， TP LINK1000 1/2/3(twisted pair link/action 1000M)，TP LINK/ACT1/2/3 (twisted pair packet forwarding link/action)
Power	DC 5V
Power consumption	7W
Operating temperature	-10~70℃
Operating humidity	5%~90%
Storage temperature	-40~80℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*96mm(W)*120mm(D)/ (height * width * depth) (external power)

Order Information

Type	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC750RM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC12V
FC750RS20/40/60-SC	10/100	Dual-fiber single-mode	1310	25/40/60	SC	External DC12V
FC750RS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC	External DC12V
FC750RSS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC12V
FC750RSS80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC12V

FC1050R Ring Type Fiber Media Converter

Overview

HiOSO FC1050R series Ring type Media Converter is designed to meet requirements of multi fiber access network. It provides 2 1000BASE-SX/LX fiber ports and 3 10/100/1000BASE-TX RJ45 ports, and one Console port, which provide not only point to point network connection, but also point to multi-point chain network. It support WEB management and RSR (Rapid Super Ring) and has extend the transmission distance of a network from 100m over copper wires to 120Km (single-mode full duplex) and is applied to highway network system, mine communication system and other chain multi-point networks.

Feature

- Provide two 10/100/1000M fiber ports, three 10/100/1000M RJ45 ports
- Support gigabit fiber Hiper-Ring network
- Support 128 ring network nodes
- Support redundant ring network protection (switching time<50ms, RSTP/STP
- Support WEB management, RSR (Rapid Super Ring)
- Working temperature is -10℃～70℃
- Supporting multiple types of fiber ports, such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users

Technical Specification

Parameters	Specifications
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T 、IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m（optical fiber size 62.5/125μm）/550m(optical fiber size 50/125μm)

	Dual-fiber single-mode: 10/20/40/60/80/100/120Km Single-fiber single-mode: 10/20/40/60/80Km Category-5 twisted pairs : 100m
Port	3 RJ45 port: Connected to STP/UTP category-5 twisted pairs 2 fiber port: Multi-mode – SC (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	<10us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER(PWR)， FX LINK1/2（fiber link/action），TP LINK1000 1/2/3(twisted pai link/action 1000M)，TP LINK/ACT1/2/3 (twisted pair packet forwarding link/action)
Power	DC 5V
Power consumption	9W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*96mm(W)*120mm(D)/ (height * width * depth) (external power)

Order Information

Type	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC1050RM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC12V
FC1050RS20/40/60-SC	10/100	Dual-fiber single-mode	1310	25/40/60	SC	External DC12V
FC1050RS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC	External DC12V

FC1050RSS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC12V
FC1050RSS80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC12V

Unmanaged Telecom Media converters

FC830A Smart Media Converters

Overview

HiOSO FC830A is an intelligent 10/100M adaptive fast Ethernet fiber media converter (also called optical-to-electrical medium converter). With its unique “link failure alert” function at both optical and electrical ends, this fast Ethernet fiber converter can completely replace the fiber converter of Network Management System (NMS) type and greatly reduce system cost.

FC830A can conduct mutual conversion between 10Base-T/100Base-TX twisted pair electrical signals and 100Base-FX optical signals.

FC830A extends the transmission distance of a network from 100m over copper wires to 120 Km, and uses two network transmission technologies (that is, the data link layer 2 storing & forwarding mode and the physical layer 1 straight-through mode) to implement data transmission between the optical and electrical network connection mediums. FC830A fiber converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- 10/100 Mbps adaptive, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting Link Failure Alert (LFA);
- Supporting FX half-duplex/full-duplex transmission modes and link failure alert function;
- Supporting switch selection of 10/100Mbps storing & forwarding mode and 100Mbps straight-through transmission mode (unique);
- Supporting low-delay transmission;
- Supporting transmission of extra-long packets (with the maximum length of 1600 bytes);
- Supporting transmission of extra-long packets over VLAN;

- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Extremely low power consumption (less than 2W), low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100Mbps fast optical Ethernet long-distance transmission network

Technical Specifications

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km;single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber link/action) FDX (FX full-duplex mode), TP LINK/ACT (twisted pair link/action) TP 100 (twisted pair: transmission rate of 100M); FX 100 (fiber: transmission rate of 100M) (external power)
Power	DC5V 1A (external), AC220 0.5A/DC-48 (built-in)
Power consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C

Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*71mm(W)*95mm(D) (height * width * depth) (external power) 26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) /(height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wave (nm)	Distance (Km)	Port	Link Alarm	Power
FC830A-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	External DC5V/1A
FC830AP-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	Built-in AC220V/DC-48V
FC830AC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	Module card DC5V
FC830A-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	External DC5V/1A
FC830A-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	External DC5V/1A
FC830AP-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	Built-in AC220V/DC-48
FC830AP-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	Built-in AC220V/DC-48
FC830AC-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	Module card DC5V
FC830AC-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	Module card DC5V
FC830AS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/ 60/80/100	SC	Support	External DC5V/1A
FC830APS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/ 60/80/100	SC	Support	Built-in AC220V/DC-48V
FC830ACS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/ 60/80/100	SC	Support	Module card DC5V

FC620A 1 RJ45 ports Media Converters

Overview

HiOSO FC620A is an 10/100M adaptive fast Ethernet fiber converter (also called optical-to-electrical medium converter).

FC620A can conduct mutual conversion between 10Base-T/100Base-TX twisted pair electrical signals and 100Base-FX optical signals. It extends the transmission distance of a network from 100m over copper wires to 120 Km, to implement data transmission between the optical and electrical network connection mediums.

FC620A fiber converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- 10-100 Mbps adaptive, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation; ;
- Supporting FX half-duplex/full-duplex transmission modes
- Supporting low-delay transmission;
- Supporting transmission of extra-long packets (with the maximum length of 1600 bytes);
- Extremely low power consumption (less than 2W), low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100Mbps fast optical Ethernet long-distance transmission network

Technical Specification

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km;single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding/straight-through
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	Storing & forwarding: 9.6 μ s; straight-through: 0.9 μ s;
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber link/action) FDX (FX full-duplex mode), TP LINK/ACT (twisted pair link/action); TP 100 (twisted pair: transmission rate of 100M);FX 100 (fiber: transmission rate of 100M) (external power)
Power	DC5V 1A (external), AC220 0.5A/DC-48 (built-in)
Power consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*71mm(W)*95mm(D) (height * width * depth) (external power) 26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) /(height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wave (nm)	Transmission Distance (Km)	Fiber port	Link Alarm	Power
FC620A-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	External DC5V/1A
FC620AP-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	Built-in AC220V/DC-48V
FC620AC-M2-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Support	Module card DC5V
FC620A-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	External DC5V/1A
FC620A-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	External DC5V/1A
FC620AP-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	Built-in AC220V/DC-48
FC620AP-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	Built-in AC220V/DC-48
FC620AC-S20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Support	Module card DC5V
FC620AC-S80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Support	Module card DC5V
FC620AS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Support	External DC5V/1A
FC620APS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Support	Built-in AC220V/DC-48V
FC620ACS-S20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Support	Module card DC5V

FC610A 2 RJ45 ports Media Converters

Overview

HiOSO FC610A is a kind of 10/100Mbps adaptive fast Ethernet fiber media converter (also called optical-to-electric medium converter), which can implement mutual conversion between 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. This type of fiber converter can extend the transmission distance of a network from 100m over copper wires to 120Km (single-mode full duplex). FC610A supports two different types of network connection medium: 10/100Base-TX and 100Base-FX, with the application of the switching technology and the storing & forwarding technology. It supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Supporting the transmission of extra-long packets over VLAN:
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports, such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100Mbps fast Ethernet long-distance transmission network

Technical Specification

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow Control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km, Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber link/action) FDX (FX full-duplex mode), TX LINK/ACT (twisted pair link/action) TX 100 (twisted pair, transmission rate: 100M)
Power	DC5V 1A (external), AC220 0.5A/DC-48 (built-in)
Power consumption	3W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	24mm(H)*59mm(W)*98mm(D) / (height * width * depth) (external power) 26mm(H)*85mm(W)*135mm(D) / (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) /height * width * depth (module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC610AM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC610APM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Built-in AC220V/DC-48V
FC610ACM-SC	10/100	Dual-fiber multi-mode	1310	2	SC/ST	Module card: DC5V
FC610AS20/40/60-SC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC610AS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC610APS20/40/60-SC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Built-in AC220V/DC-48V
FC610APS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Built-in AC220V/DC-48V
FC610ACS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Module card DC5V
FC610ACS80/100/120-SC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Module card DC5V
FC610ASS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	External DC5V/1A
FC610APSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Built-in AC220V/DC-48V
FC610ACSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Module card DC5V

FC610B 2 RJ45 ports Media Converters

Overview

HiOSO FC610B is a kind of 10/100Mbps adaptive fast Ethernet fiber media converter (also called optical-to-electric medium converter), which can implement mutual conversion between two independent 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. This type of fiber converter can extend the transmission distance of a network from the limit of 100m (via copper wires) to 120Km (single-mode full-duplex mode). FC610B supports two different types of network connection medium types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, the converter can implement data transmission between the two types of network connection media. It supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Adaptive 10Mbps and 100Mbps environment, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing two independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic cross of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Extremely low power consumption (less than 2W), low heat and capable of stable operation for a long period of time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100Mbps fast optical Ethernet network with long-distance transmission

Technical Specifications

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Two RJ45 ports: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125μm) Single mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber link/action), FX FDX (FX full duplex mode) TP1 LINK/ACT (Port 1 twisted pair link/action), TP1 100 (port 1 twisted pair 100M transmission rate) TP2 LINK/ACT (Port 2 twisted pair link/action), TP2 100 (port 2 twisted pair 100M transmission rate)
Power	DC5V/1A (external)
Power consumption	3.2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	24mm(H)*59mm(W)*98mm(D) (height * width * depth) (external power) 26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC610BM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	External DC5V/1A
FC610BPM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	Internal AC 220V
FC610BCM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	Card DC5V
FC610BS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC610BPS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Internal AC 220V
FC610BCS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Card DC5V
FC610BS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC610BPS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Internal AC 220V
FC610BCS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Card DC5V
FC610BSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	External DC5V/1A
FC610BPSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Internal AC 220V
FC610BCSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1550	25/40/60/80/100	SC	Card DC5V

FC650A 4 RJ45 ports Media Converter

Overview

HiOSO FC650A is a kind of 10/100Mbps adaptive fast Ethernet fiber media converter (also called optical-to-electric medium converter) with a built-in four-port 10M/100Mbps adaptive switch, which can implement mutual conversion between four independent 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. FC650A can extend the transmission distance of a network from 100m over copper wires to 120Km (single-mode full-duplex mode).

This type of fiber converter supports two types of network connection medium: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, FC650A can implement data transmission between two types of network connection medium. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Adaptive 10Mbps and 100Mbps Ethernet network, for the convenience of network upgrading;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing four independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Providing four electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode

and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps fast Ethernet long-distance transmission network

Technical Specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	Four RJ45 connector: connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/4100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)
Power	DC5V/1A (external)
Power consumption	3.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*70mm(Width)*98mm(Depth) (external power)

Ordering Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC650AM-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC650AS20/40/60 -SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC650AS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1A
FC650ASS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V/1A
FC650ASS80/100-SC	10/100	Single-fiber single-mode	1310/1550	80/100	SC	External DC5V/1A

FC690A 8 RJ45 ports Media Converters

Overview

HiOSO FC690A is a kind of 10/100Mbps adaptive fast Ethernet fiber media converter (also called optical-to-electric medium converter) with a built-in eight-port 10M/100Mbps adaptive switch, which can implement mutual conversion between four independent 10Base-T/100Base-TX twisted

pair electrical signal and 100Base-FX optical signal. FC690A can extend the transmission distance of a network from 100m over copper wires to 120 Km (single-mode full-duplex mode). It supports two different types of network connection medium types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, FC690A can implement data transmission between the two types of network connection media. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing eight independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Providing eight electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- Supporting full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Application

10/100Mbps fast Ethernet long-distance transmission network

Technical Specifications

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	Eight RJ45 interfaces: connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode

Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3/4/5/6/7/8 LINK/ACT (1/2/3/4/5/6/7/8-port twisted pairs connection action) TP1/2/3/4/5/6/7/8 100 (1/2/3/4/5/6/7/8-port twisted pairs, with a transmission rate of 100M)
Power	DC5V/1A (external)
Power consumption	5W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	38mm(Height)*118mm(Width)*152mm(Depth) (external power)

Ordering Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC690AM-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A
FC690AS20/40/60 -SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC690AS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1310	80/100/120	SC/FC	External DC5V/1A
FC690ASS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V/1A
FC690ASS80/100/120-SC	10/100	Single-fiber single-mode	1310/1550	80/100/120	SC	External DC5V/1A

FC1000A 1 RJ45 port Gigabit Adaptive Media Converters

Overview

HiOSO FC1000A 10/100/1000Mbps adaptive Gigabit Ethernet Fiber Media Converter uses the switching technology to conduct media conversion, which meets the standards of IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab. FC1000A supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX.

FC1000A can conduct mutual conversion between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-SX/LX optical signals. It extends the transmission distance of a network from 100m over copper wires to 120Km. This fiber converter supports transmission in dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Supporting mutual signal conversion between 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic cross of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100/1000Mbps Gigabit Optical Ethernet network with long-distance transmission

Technical Specification

Parameters	Specifications
Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m (fiber size: 62.5/125μm)/550m (fiber size: 50/125μm) Dual-fiber single-mode: 10/20/40/60/80/100/120Km Single-fiber single-mode: 10/20/40/60/80Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: Dual-fiber multi-mode – SC (fiber size: 50,62.5/125μm) Dual-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	<10μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK (fiber link action), TP LINK1000 (twisted pair connection 1000M), TP LINK100 (twisted pair connection 100M), TP ACT (twisted pair packet forwarding action)
Power	AC220V 0.5A/DC-48V (built-in)
Power consumption	5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	38mm(H)*118mm(W)*152mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) (height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Distance (Km)	Fiber port	Power
FC1000AP-M2-SC	10/100/1000	Dual-fiber multi-mode	850	220/550m	SC	Built-in AC220V/DC-48V
FC1000AC-M2-SC	10/100/1000	Dual-fiber multi-mode	850	220/550m	SC	Module card DC5V
FC1000AP-S10/20/40-SC	10/100/1000	Dual-fiber single-mode	1310	10/20/40	SC	Built-in AC220V/DC-48V
FC1000AP-S60/80/100/120-SC	10/100/1000	Dual-fiber single-mode	1550	60/80/ 100/120	SC	Built-in AC220V/DC-48V
FC1000AC-S10/20/40-SC	10/100/1000	Dual-fiber single-mode	1310	10/20/40	SC	Module card DC5V
FC1000AC-S60/80/100/120-SC	10/100/1000	Dual-fiber single-mode	1550	60/80/ 100/120	SC	Module card DC5V
FC1000APS-S10/20-SC	10/100/1000	Single-fiber single-mode	WDM 1310/1550	10/20	SC	Built-in AC220V/DC-48V
FC1000APS-S40/60/80-SC	10/100/1000	Single-fiber single-mode	WDM 1310/1550	40/60/80	SC	Built-in AC220V/DC-48V
FC1000ACS-S10/20-SC	10/100/1000M	Single-fiber single-mode	WDM 1310/1550	10/20	SC	Module card DC5V
FC1000ACS-S40/60/80-SC	10/100/1000M	Single-fiber single-mode	WDM 1310/1550	40/60/80	SC	Module card DC5V

FC1050A 4 RJ45 ports Gigabit Media Converter

Overview

HiOSO FC1050A a kind of 10/100/1000Mbps adaptive gigabit Ethernet fiber converter (also called optical-to-electric medium converter) with a built-in four-port auto crossover MDI/MDI-X 10/100/1000Mbps adaptive switch, which can implement mutual conversion between four independent 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-X optical signal. FC1050 can extend the transmission distance of a network from 100m over copper wires to 100Km (single-mode full-duplex mode).

This type of fiber converter supports two types of network connection medium: 10Base-T/100Base-TX/ 1000Base-T and 1000Base-X. With the application of the switching technology and the storing & forwarding technology, FC1050 can implement data transmission between two types of network connection medium. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

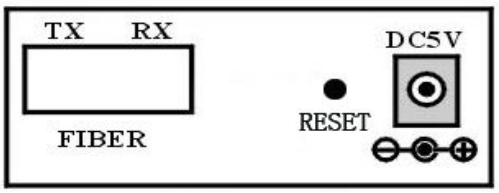
- Adaptive 10/100/1000Mbps Ethernet network, for the convenience of network upgrading;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing four independent 10/100/1000Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- Supports IGMP v1/v2/v3 and MLD v1/v2 snooping
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;
- 802.1Q tag based VLAN(up to 4 VLAN)
- 802.1P 4 egress priority queues

Application

10/100/1000Mbps Ethernet long-distance transmission network

Pictures

External power



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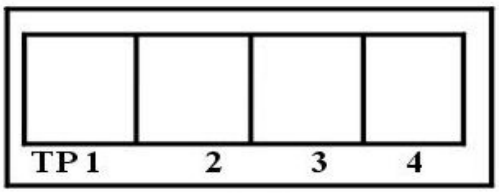


Back

Technical Specification

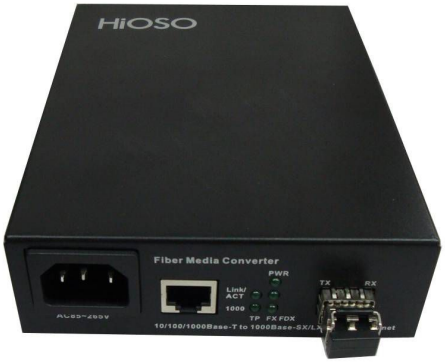
Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE 802.3ab 1000Base-T Gigabit Ethernet, IEEE 802.3z 1000Base-SX/LX ,IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree protocol
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	Four RJ45 connector:connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding
Maximum frame size	1522 bytes including tag/CRC
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power),FX LINK/ACT (fiber connection/action), TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/4 1000 (1/2/3/4-port twisted pairs, with a transmission rate of 1000M)
Power	DC5V/2A (external)
Power consumption	3.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)

Dimensions	26mm(Height)*104mm(Width)*119mm(Depth) (external power)

Ordering Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC1050A M-SC/ST	10/100/1000	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/2A
FC1050A S20/40/60 -SC/FC	10/100/1000	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/2A
FC1050A S80/100/120-SC/FC	10/100/1000	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/2A
FC1050AS S20/40/60-SC	10/100/1000	Single-fiber single-mode	1310/1550	25/40/60	SC	External DC5V/2A
FC1050AS S80/100-SC	10/100/1000	Single-fiber single-mode	1310/1550	80/100	SC	External DC5V/2A

FC1001 SFP Gigabit Media Converter



Overview

HiOSO FC1001-SFP Gigabit Ethernet Fiber Converter uses the switching technology to conduct media conversion, which meets the standards of IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab. It supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX. It can conduct mutual conversion between 10Base-T/100Base-TX/1000Base-T twisted pair electrical signal and 1000Base-SX/LX optical signals.

It extends the transmission distance of a network from 100m over copper wires to 120Km. This fiber converter supports transmission in dual-fiber multi-mode、 dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Gigabit Ethernet media converter with SFP slot
- With one LC fiber connector and one RJ45 connector
- Supporting mutual signal conversion between 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic cross of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode、dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100/1000Mbps Gigabit Optical Ethernet network with long-distance transmission

Technical Specifications

Parameters	Specifications
Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit thernet, IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m (fiber size: 62.5/125μm)/550m (fiber size: 50/125μm) Dual-fiber single-mode: 10/20/40/60/80/100/120Km Single-fiber single-mode: 10/20/40/60/80Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One fiber port: 1000M LC
Conversion mode	Medium conversion
Delay	<10μs
Bit error rate	<1/1000000000

MTBF	100,000 hours
LED	POWER (power), FX LINK (fiber link action), TP LINK1000 (twisted pair connection 1000M), TP LINK100 (twisted pair connection 100M), TP ACT (twisted pair packet forwarding action)
Power	AC220V 0.5A/DC-48V (built-in)
Power consumption	5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	38mm(H)*118mm(W)*152mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) (height * width * depth) (module card)

FTC-14 14-slot Media Converter Rack

Overview

HiOSO FTC-14 14-slot fiber converter rack (2U) is a kind of economical converter rack used in machine rooms. This type of rack can allow the direct insertion of maximum14 fiber converters in different modes. There is an active and standby power system in a centralized manner, supporting automatic switching.

Feature

- The active/standby power configuration ensures uninterrupted operation of the system.
- Drawer-type power configuration, easy for power replacement in standby mode.
- Supporting two power supply modes: AC220V and DC -48V, so that the system is applicable to multiple operating environments;
- Supporting simultaneous operation of fiber converters in different modes, greatly improving system applicability;
- Supporting hot swapping of the entire fiber converter;
- Fiber converters supported: FC830A series external power system, etc.

Technical Specifications

Parameters	Specifications
Number of slots	14
Structure	2U rack, drawer-type power
Power input	AC – Voltage: AC85 ~ 265V; frequency: 50/60 Hz
	DC – voltage: DC -36 ~ 72V
Power output	DC5V 12A
Ripple	≤20mv
Power configuration	Single power or dual power (in hot backup mode)
LED	POWER (power)
Maximum power consumption	70W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Rack dimensions	90mm(H)*485mm(W)*230mm(D) / (height * width * depth)
Converter dimensions	26mm(H)*71mm(W)*95mm(D) / (height * width * depth)

Order Information

Model	Number of slots	Structure	Height	Power
FTC-14-1	14	19-inch rack	2U	Drawer-type single power AC220V
FTC-14-1-48	14	19-inch rack	2U	Drawer-type single power DC -48V
FTC-14-2	14	19-inch rack	2U	Drawer-type dual power AC220V
FTC-14-2-48	14	19-inch rack	2U	Drawer-type dual power DC -48V
FTC-14-2-48/220	14	19-inch rack	2U	Drawer-type dual power DC -48V + AC220V
PFT12A	Drawer-type rack power: input: AC220V; output: DC5V/12A, DC12V/0.5A			
PFT12A-48	Drawer-type rack power: input: DC -48V; output: DC5V/12A, DC12V/0.5A			

FTC-16 16-slot Fiber Converter Rack

Overview

HiOSO FTC-16 fiber converter rack (3U) is a kind of economical converter rack used in machine rooms. The rack can accommodate maximum 16 different types of fiber converter module cards. There is an active and standby power system in a centralized manner, supporting automatic switching.

Feature

- The active/standby power configuration ensures uninterrupted operation of the system;
- Supporting two power supply modes: AC220V and DC -48V, so that the system is applicable to multiple operating environment;
- Supporting the simultaneous operation of multiple types of module cards at different rates, greatly improving the system applicability;
- Each module supports hot swapping;
- Module cards supported: FC830AC series,FC610AC series,FC1000C series, FC1000AC series,FC1000FC series,FC155FC series and FC622FC series.

Technical Specification

Parameters	Specifications
Number of slots	16
Structure	3U rack
Power input	AC – Voltage: AC85 ~ 265V; frequency: 50/60 Hz
	DC – Voltage: DC -36 ~ 72V
Power output	DC5V 16A
Ripple	≤20mv
Power configuration	Single power or dual power (in hot backup mode)
LED	POWER (power)
Maximum power consumption	95W

Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Rack dimensions	132mm(H)*440mm(W)*220mm(D) / (height * width * depth)
Module card dimensions	110mm(H)*22mm(W)*81mm(D) / (height * width * depth)

Ordering Information

Model	Number of slots	Structure	Height	Power
FTC-16-1	16	19-inch rack	3U	Single power AC220V
FTC-16-1-48	16	19-inch rack	3U	Single power DC-48V
FTC-16-2	16	19-inch rack	3U	Dual power AC220V
FTC-16-2-48	16	19-inch rack	3U	Dual power DC-48V
FTC-16-2-48/220	16	19-inch rack	3U	Dual power DC-48V + AC220V

HD Fiber Media Converter

FC520A HD Video Fiber Media Converter

Overview

FC520A is 100M HD Video Fiber Media Converter, which is specially designed for Network HD IP camera and Network access control system. It supports long-distance stable HD Network video signals transmission through fiber cables. FC520A can work with FTC-17 Media Converter rack in the central machine room.

FC520A provides HD Network port, which can connect with HD IP camera or Network access control system.

Feature

- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 100Base-FX fiber transmission standard, compatible with other Media Converters which supports 100Base-FX standard;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- FTC-17 Rack supports dual power supply redundancy backup and hot swap;
- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	1 RJ45 port, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP LINK/ACT (twisted pairs connection/action) TP100 (twisted pairs, with a transmission rate of 100M)
Power	DC5V
Power consumption	2W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*96mm(Width)*113mm(Depth) (external power) 77mm(Height)*25mm(Width)*110mm(Depth) (Module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC520A-M2-SC	100	Dual-fiber multi-mode	1310	2	External power
FC520AC-M2-SC	100	Dual-fiber multi-mode	1310	2	Module card
FC520A-S10/20/40-SC	100	Dual-fiber single-mode	1310	10/20/40	External power
FC520AC-S10/20/40-SC	100	Dual-fiber single-mode	1310	10/20/40	Module card
FC520AS-S10/20/40-SC	1000	Single-fiber single-mode	1310	10/20/40	External power
FC520AC-SS10/20/40-SC	100	Single-fiber single-mode	1310	10/20/40	Module card
FC520A-S60/80/100/120-SC	100	Dual-fiber single-mode	1550	60/80/100/120	External power
FC520AC-S60/80/100/120-SC	100	Dual-fiber single-mode	1550	60/80/100/120	Module card
FC520AS-S60/80/100/120-SC	100	Single-fiber single-mode	1550	60/80/100/120	External power
FC520ACS-S60/80/100/120-SC	100	Single-fiber single-mode	1550	60/80/100/120	Module card

FC524A HD Video Fiber Media Converter

Overview

FC524A is 100M four ports HD Video Fiber Media Converter, which is specially designed for Network HD IP camera and Network access control system. It supports long-distance stable HD Network video signals transmission through fiber cables. FC524A can work with FTC-17 Media Converter rack in the central machine room.

FC524A provides HD Network port, which can connect with HD IP camera or Network access control system.

Feature

- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 100Base-FX fiber transmission standard, compatible with other Media Converters which supports 100Base-FX standard;
- Four ethernet ports support 10/100M, auto apply to full/half duplex
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- FTC-17 Rack supports dual power supply redundancy backup and hot swap;
- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	4 RJ45 ports, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)

Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power), FX LINK/ACT (fiber connection/action) TP1--4 LINK/ACT (twisted pairs connection/action)
Power	DC5V
Power consumption	2W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*96mm(Width)*113mm(Depth) (external power) 77mm(Height)*25mm(Width)*110mm(Depth) (Module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC524A-M2-SC	100	Dual-fiber multi-mode	1310	2	External power
FC524AC-M2-SC	100	Dual-fiber multi-mode	1310	2	Module card
FC524A-S10/20/40-SC	100	Dual-fiber single-mode	1310	10/20/40	External power
FC524AC-S10/20/40-SC	100	Dual-fiber single-mode	1310	10/20/40	Module card
FC524AS-S10/20/40-SC	1000	Single-fiber single-mode	1310	10/20/40	External power
FC524AC-SS10/20/40-SC	100	Single-fiber single-mode	1310	10/20/40	Module card
FC524A-S60/80/100/120-SC	100	Dual-fiber single-mode	1550	60/80/100/120	External power

FC524AC-S60/80/100/120-SC	100	Dual-fiber single-mode	1550	60/80/100/120	Module card
FC524AS-S60/80/100/120-SC	100	Single-fiber single-mode	1550	60/80/100/120	External power
FC524ACS-S60/80/100/120-SC	100	Single-fiber single-mode	1550	60/80/100/120	Module card

FC520AG HD Fiber Media Converter

Overview

FC520AG is 1000M HD Video Fiber Media Converter, which is specially designed for Network HD IP camera and Network access control system. It supports long-distance stable HD Network video signals transmission through fiber cables. FC520AG can work with FTC-17 Media Converter rack in the central machine room.

FC520AG provides HD Network port, which can connect with HD IP camera or Network access control system.

Feature

- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 1000Base-FX fiber transmission standard, compatible with other devices which supports 1000Base-FX standard;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- FTC-17 Rack supports dual power supply redundancy backup and hot swap;

- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,1000Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	1 RJ45 port, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX1000 (Fiber, with a transmission rate of 1000M) TP LINK/ACT (twisted pairs connection/action) TP1000 (twisted pairs, with a transmission rate of 1000M)
Power	DC5V
Power consumption	2W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*96mm(Width)*113mm(Depth) (external power) 77mm(Height)*25mm(Width)*110mm(Depth) (Module card)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)）	Power
FC520AG-M2-SC	1000	Dual-fiber multi-mode	1310	2	External power
FC520AGC-M2-SC	1000	Dual-fiber multi-mode	1310	2	Module card
FC520AG-S10/20/40-SC	1000	Dual-fiber single-mode	1310	10/20/40	External power
FC520AGC-S10/20/40-SC	1000	Dual-fiber single-mode	1310	10/20/40	Module card
FC520AGS-S10/20/40-SC	1000	Single-fiber single-mode	1310	10/20/40	External power
FC520AGC-SS10/20/40-SC	1000	Single-fiber single-mode	1310	10/20/40	Module card
FC520AG-S60/80/100/120-SC	1000	Dual-fiber single-mode	1550	60/80/100/120	External power
FC520AGC-S60/80/100/120-SC	1000	Dual-fiber single-mode	1550	60/80/100/120	Module card
FC520AGS-S60/80/100/120-SC	1000	Single-fiber single-mode	1550	60/80/100/120	External power
FC520AGCS-S60/80/100/120-SC	1000	Single-fiber single-mode	1550	60/80/100/120	Module card

FC524AG HD Fiber Media Converter

Overview

FC524AG is 1000M four ports HD Fiber Media Converter, which is specially designed for Network HD IP camera and Network access control system. It supports long-distance stable HD Network video signals transmission through fiber cables. FC524AG can work with FTC-17 Media Converter rack in the central machine room.

FC524AG provides HD Network port, which can connect with HD IP camera or Network access control system.

Feature

- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 1000Base-FX fiber transmission standard, compatible with other devices which supports 1000Base-FX standard;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- FTC-17 Rack supports dual power supply redundancy backup and hot swap;
- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,1000Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	4 RJ45 ports, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode

MAC address table	I K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power), FX LINK/ACT (fiber connection/action) TP1--4 LINK/ACT (twisted pairs connection/action)
Power	DC5V
Power consumption	2W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*140mm(Width)*106mm(Depth) (external power)

Order Information

Model	Rate (Mbps)	Mode	Working Wave (nm)	Distance (Km)）	Power
FC524AG-M-SC	1000	Dual-fiber multi-mode	1310	2	External power DC12V
FC524AG-S20/40-SCC	1000	Dual-fiber single-mode	1310	20/40	External power DC12V
FC524AG-S60/80/100/120-SCC	1000	Dual-fiber single-mode	1550	60/80/100/120	External power DC12V
FC524AG-SS20/40-SCC	1000	Single-fiber single-mode	1310	20/40	External power DC12V
FC524AG-SS60/80/100-SC	1000	Single-fiber single-mode	1550	60/80/100/120	External power DC12V

FTC-17 17-slot HD Fiber Media Converter Rack

Overview

HiOSO FTC-17 HD Fiber Media Converter Rack (2U) is a kind of economical converter rack used in machine rooms. The rack can accommodate maximum 17 different types of fiber converter module cards. There is an active and standby power system in a centralized manner, supporting automatic switching.

Feature

- The active/standby power configuration ensures uninterrupted operation of the system;
- Supporting two power supply modes: AC220V and DC -48V, so that the system is applicable to multiple operating environment;
- Supporting the simultaneous operation of multiple types of module cards at different rates, greatly improving the system applicability;
- Each module supports hot swapping;
- Module cards supported: FC520AC series and FC520AGC series

Technical Specification

Parameters	Specifications
Number of slots	17
Structure	2U rack
Power input	AC – Voltage: AC85 ~ 265V; frequency: 50/60 Hz
	DC – Voltage: DC -36 ~ 72V
Power output	DC5V 16A
Ripple	≤20mv
Power configuration	Single power or dual power (in hot backup mode)
LED	POWER (power)

Maximum power consumption	95W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Rack dimensions	132mm(H)*440mm(W)*220mm(D) / (height * width * depth)
Module card dimensions	110mm(H)*22mm(W)*81mm(D) / (height * width * depth)

Order Information

Model	Number of slots	Structure	Height	Power
FTC-17-1	17	19-inch rack	2U	Single power AC220V
FTC-17-1-48	17	19-inch rack	2U	Single power DC-48V
FTC-17-2	17	19-inch rack	2U	Dual power AC220V
FTC-17-2-48	17	19-inch rack	2U	Dual power DC-48V
FTC-17-2-48/220	17	19-inch rack	2U	Dual power DC-48V + AC220V

PoE Fiber Media Converter

FC520A-P POE HD Fiber Media Converter

Overview

FC520A-P is 100M POE HD Video Fiber Media Converter, which is specially designed for POE Network HD IP camera， POE wireless AP and other POE Network access control system. It supports IEEE802.3af 15.4W and IEEE802.3at 30W POE standards. It can auto discovery the power receiving devices which support IEEE802.3af/at standard and supply power to it. To the connected devices which not support PoE, it will auto stop supplying power. It supports long-distance stable HD Network video signals transmission through fiber cables.

Feature

- PoE port supports to auto discovery the standard power receiving devices.
- Support IEEE802.3af 15.4W and IEEE802.3at 30W PoE standards
- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 100Base-FX fiber transmission standard, compatible with other Media Converters which supports 100Base-FX standard;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- Used in remote side, supports to work with central side card type Media Converter FC520AC and Media Converter rack FTC-17 series, which supports dual power supply redundancy backup and hot swap;
- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS, IEEE802.1d Spanning Tree
POE	POE port: 1 port Standard: IEEE802.3af 15.4W, IEEE802.3at 30W Working mode: auto discover and power/dis-power receiving power device
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	1 RJ45 port, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	2K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FX SD (fiber receiving signal detection), TP LINK/ACT (twisted pairs connection/action) POE (POE running)
Power	DC48V (external)
Power consumption	2.5W, Max POE power supplying 30W
Operating temperature	-10~55℃
Operating humidity	5%~90%

Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimension	26mm(H) * 96mm(W) * 113mm(D)

Order Information

Model	Rate (Mbps)	POE power supply	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Power
FC520A-PF-M-SC	10/100	15.4W	Dual-fiber multi-mode	1310	2	DC48V
FC520A-PF-S20-SC	10/100	15.4W	Dual-fiber single-mode	1310	25	DC48V
FC520A-PF-S40-SC	10/100	15.4W	Dual-fiber single-mode	1310	40	DC48V
FC520A-PF-S60-SC	10/100	15.4W	Dual-fiber single-mode	1310	60	DC48V
FC520A-PT-S80-SC	10/100	30W	Dual-fiber single-mode	1550	80	DC48V
FC520A-PT-S120-SC	10/100	30W	Dual-fiber single-mode	1550	120	DC48V
FC520A-PF-SS20-SC	10/100	15.4W	Single-fiber single-mode	1310/1550	25	DC48V
FC520A-PF-SS40-SC	10/100	15.4W	Single-fiber single-mode	1310/1550	40	DC48V
FC520A-PF-SS60-SC	10/100	15.4W	Single-fiber single-mode	1310/1550	60	DC48V
FC520A-PT-SS80-SC	10/100	30W	Single-fiber single-mode	13101550	80	DC48V
FC520A-PT-SS120-SC	10/100	30W	Single-fiber single-mode	1490/1550	120	DC48V

FC520AG-P POE HD Fiber Media Converter

Overview

FC520AG-P is 1000M POE HD Video Fiber Media Converter, which is specially designed for POE Network HD IP camera， POE wireless AP and other POE Network access control system. It supports IEEE802.3af 15.4W and IEEE802.3at 30W POE standards. It can auto discovery the power receiving devices which support IEEE802.3af/at standard and supply power to it. To the connected devices which not support PoE, it will auto stop supplying power. It supports long-distance stable HD Network video signals transmission through fiber cables.

Feature

- PoE port supports to auto discovery the standard power receiving devices.
- Support IEEE802.3af 15.4W and IEEE802.3at 30W PoE standards
- Adopt special switch chipset design for HD Network video transmission;
- Support 3.2G bandwidth high-speed storing, forwarding and access;
- Support 1000Base-FX fiber transmission standard, compatible with other Media Converters which supports 1000Base-FX standard;
- Support full-duplex and half duplex transmission modes and capable of automatic negotiation;
- Support VLAN tag long packets transmission;
- Support flow control, QOS and STP
- Support max distance 120KM transmission;
- Used in remote side, supports to work with central side card type Media Converter FC520AGC and Media Converter rack FTC-17 series, which supports dual power supply redundancy backup and hot swap;
- Support 1M built-in high-speed cache capacity and 2K built-in MAC address buffer space
- Support lightning protection for electrical ports, low consumption and low heat, support long-term stable work.

Technical Specification

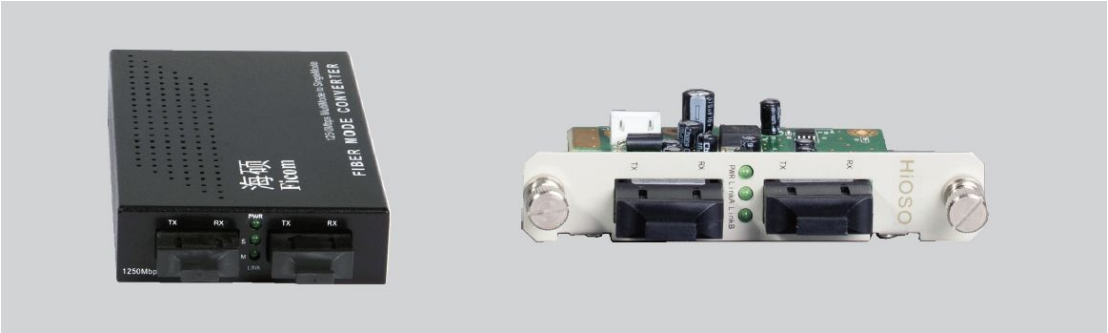
Parameter	Specifications
Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS, IEEE802.1d Spanning Tree
POE	POE port: 1 port Standard: IEEE802.3af 15.4W, IEEE802.3at 30W Working mode: auto discover and power/dis-power receiving power device
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m/550m Dual-fiber single-mode: 10//20/40/60/80/100/120Km; Single-fiber single-mode: 10/20/40/60/80/100Km Category-5 twisted pair: 100m
Port	1 RJ45 port, connected to STP/UTP category-5 twisted pair 1 fiber port: Multi-mode - SC (fiber size: 50,62.5/125μm) Single mode - SC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	1K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	<10us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power), FX LINK/ACT (fiber connection/action) FX SD (fiber receiving signal detection), TP LINK/ACT (twisted pairs connection/action) POE (POE running)
Power	DC48V (external), POE power supply 15.4W/30W
Power consumption	3W, Max POE power supplying 30W
Operating temperature	-10~55℃
Operating humidity	5%~90%
Storage temperature	-40~70℃
Storage humidity	5%~90% (non-condensing)
Dimension	26mm(H) * 96mm(W) * 113mm(D)

Order Information

Model	Rate (Mbps)	POE power	Mode	Working Wavelength	Trans Distance	Power
FC520AG-PF-M-SC	10/100/1000	15.4W	Dual-fiber multi-mode	1310nm	220/550m	DC48V
FC520AG-PF-S20-SC	10/100/1000	15.4W	Dual-fiber single-mode	1310nm	20 km	DC48V
FC520AG-PF-S40-SC	10/100/1000	15.4W	Dual-fiber single-mode	1310nm	40 km	DC48V
FC520AG-PF-S60-SC	10/100/1000	15.4W	Dual-fiber single-mode	1310nm	60 km	DC48V
FC520AG-PT-S80-SC	10/100/1000	30W	Dual-fiber single-mode	1550nm	80 km	DC48V
FC520AG-PT-S120-SC	10/100/1000	30W	Dual-fiber single-mode	1550nm	120 km	DC48V
FC520AG-PF-SS20-SC	10/100/1000	15.4W	Single-fiber single-mode	1310/1550nm	25 km	DC48V
FC520AG-PF-SS40-SC	10/100/1000	15.4W	Single-fiber single-mode	1310/1550nm	40 km	DC48V
FC520AG-PF-SS60-SC	10/100/1000	15.4W	Single-fiber single-mode	1310/1550nm	60 km	DC48V
FC520AG-PT-SS80-SC	10/100/1000	30W	Single-fiber single-mode	13101550nm	80 km	DC48V
FC520AG-PT-SS120-SC	10/100/1000	30W	Single-fiber single-mode	1490/1550nm	120 km	DC48V

Single/Multi-Mode converters

FC1000F ATM Single/Multi-Mode Converters



Overview

HiOSO FC1000F series single/multi-mode converters are applied to 1000Mbps Gigabit Ethernets with hybrid wiring of single-mode and multi-mode fibers. Ficom FC1000F series single/multi-mode converters can implement mutual conversion between single-mode and multi-mode 1310nm wavelength as well as mutual conversion among 850nm, 1310nm and 1550nm wavelength, and implement signal trunking, so that transmission distance of signal in multi-mode fibers can be extended t longer. FC1000F supports transmission in dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Protocol supported: IEEE802.3z 100BASE-SX/LX
- Supporting full-duplex and half-duplex network communications;
- Capable of mutual conversion between 850nm multi-mode fiber and 1310nm/1550nm single-mode fiber;
- Supporting direct and transparent transmission of packets in different lengths;
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

100Mbps Optical Ethernet Network with long-distance transmission

Technical Specification

Parameters	Specifications
Access mode	1000Mbps (1250Mbpc)
Standard	IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m (fiber size: 62.5/125μm)/550m (fiber size: 50/125μm) Dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80Km
Port	One multi-mode fiber port: Multi-mode – SC (fiber size: 50,62.5/125μm) One single-mode fiber port: Single-mode SC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	< 0.3μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power) SM LINK (single-mode fiber link) MM LINK (multi-mode fiber link)
Power	AC220V 0.3A/DC-48V 0.5A
Power consumption	3.5W
Operating temperature?	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) (height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Conversion Mode	Working Wavelength (nm)	Multi-mode Transmission Distance	Single-mode Transmission Distance	Fiber port	Power
FC1000FP-M85SC2-S13SC10/20/40	1000	Multi-mode to single-mode	850-1310	220m/550m	10/20/40km	SC	Built-in AC220V/ DC-48V
FC1000FP-M85SC2-S15SC60/80/100	1000	Multi-mode to single-mode	850-1550	220m/550m	60/80/100km	SC	Built-in AC220V/ DC-48V
FC1000FC-M85SC2-S13SC10/20/40	1000	Multi-mode to single-mode	850-1310	220m/550m	10/20/40km	SC	Module card DC5V
FC1000FC-M85SC2-S13SC60/80/100	1000	Multi-mode to single-mode	850-1550	220m/550m	60/80/100km	SC	Module card DC5V

FC155F ATM Single/Multi-Mode Converters

Overview

HiOSO FC155F series ATM single/multi-mode converters are applied to 155Mbps ATM, SDH and 100Mbps fast Ethernets with hybrid wiring of single-mode and multi-mode fibers. It can implement mutual conversion between single-mode and multi-mode 1310nm wavelength as well as mutual conversion among 850nm, 1310nm and 1550nm wavelength, and implement signal trunking, so that transmission distance of signal in multi-mode fiber can be extended longer. FC155F supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- Protocols supported: 155Mbps ATM/SDH, IEEE802.3u 100BASE-FX, and FDDI
- Supporting full-duplex and half-duplex network communications;
- Capable of mutual conversion between 850nm/1310 multi-mode fibers and 1310nm/1550nm single-mode fibers;
- Supporting direct and transparent transmission of packets in different length;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports, such as dual-fiber multi-mode,dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

155MbpsATM/SDH/fast Ethernet network/FDDI optical network with long-distance transmission

Technical Specification

Parameters	Specifications
Access mode	155Mbps (100Mbps)
Standard	155Mbps ATM/SDH, IEEE802.3u 100Base-FX Fast Ethernet, FDDI
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km;

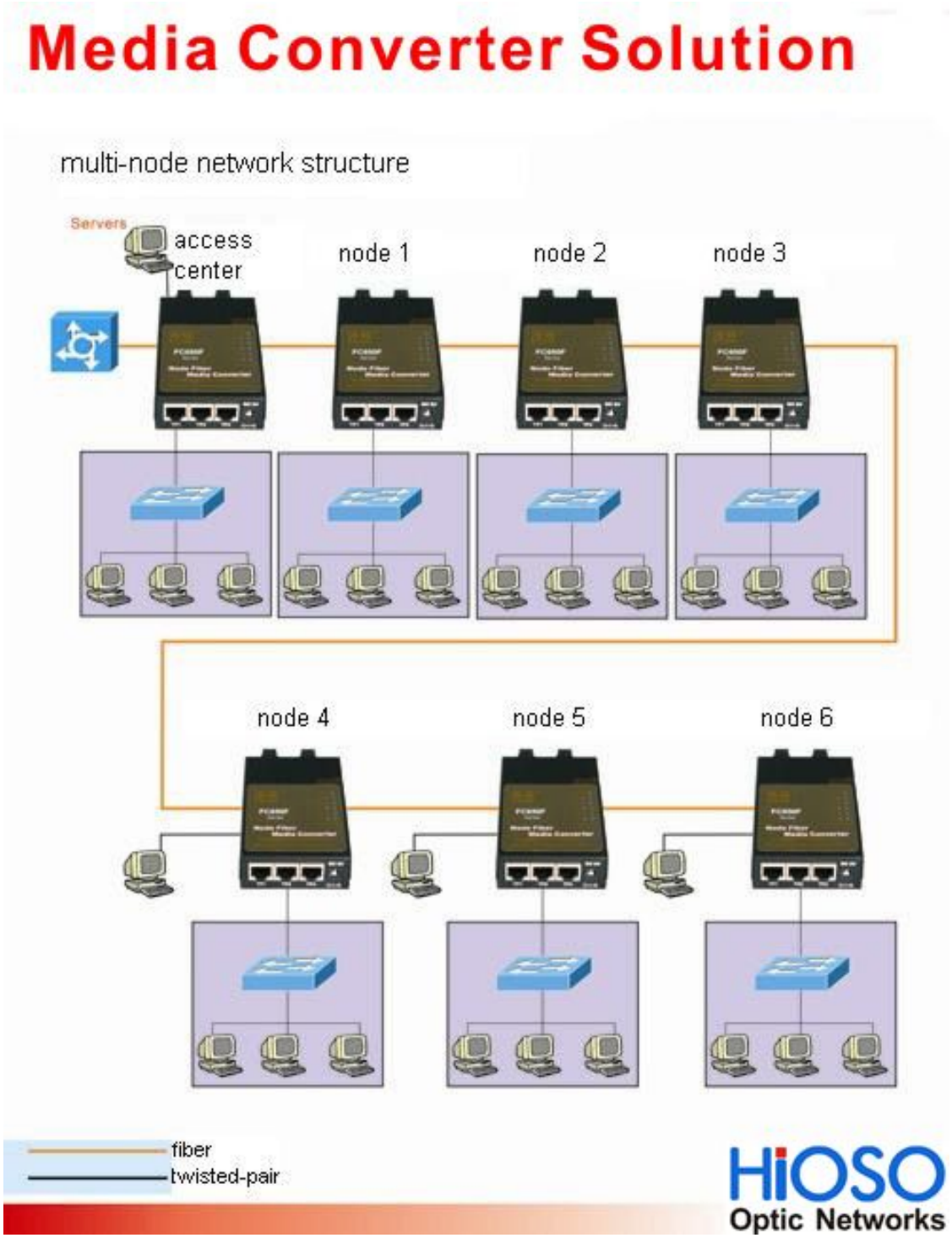
	Dual-fiber single-mode: 25/40/60/80/100/120Km
Port	One multi-mode fiber port: Multi-mode-SC (fiber size: 50,62.5/125μm) One single-mode fiber port: single-mode- SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	< 0.3μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	PWR (power) SM LINK (single-mode fiber link) MM LINK (multi-mode fiber link)
Power	AC220V 0.3A/DC-48V 0.5A
Power consumption	3.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*85mm(W)*135mm(D) / (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) / (height * width * depth) (module card)

Order Information

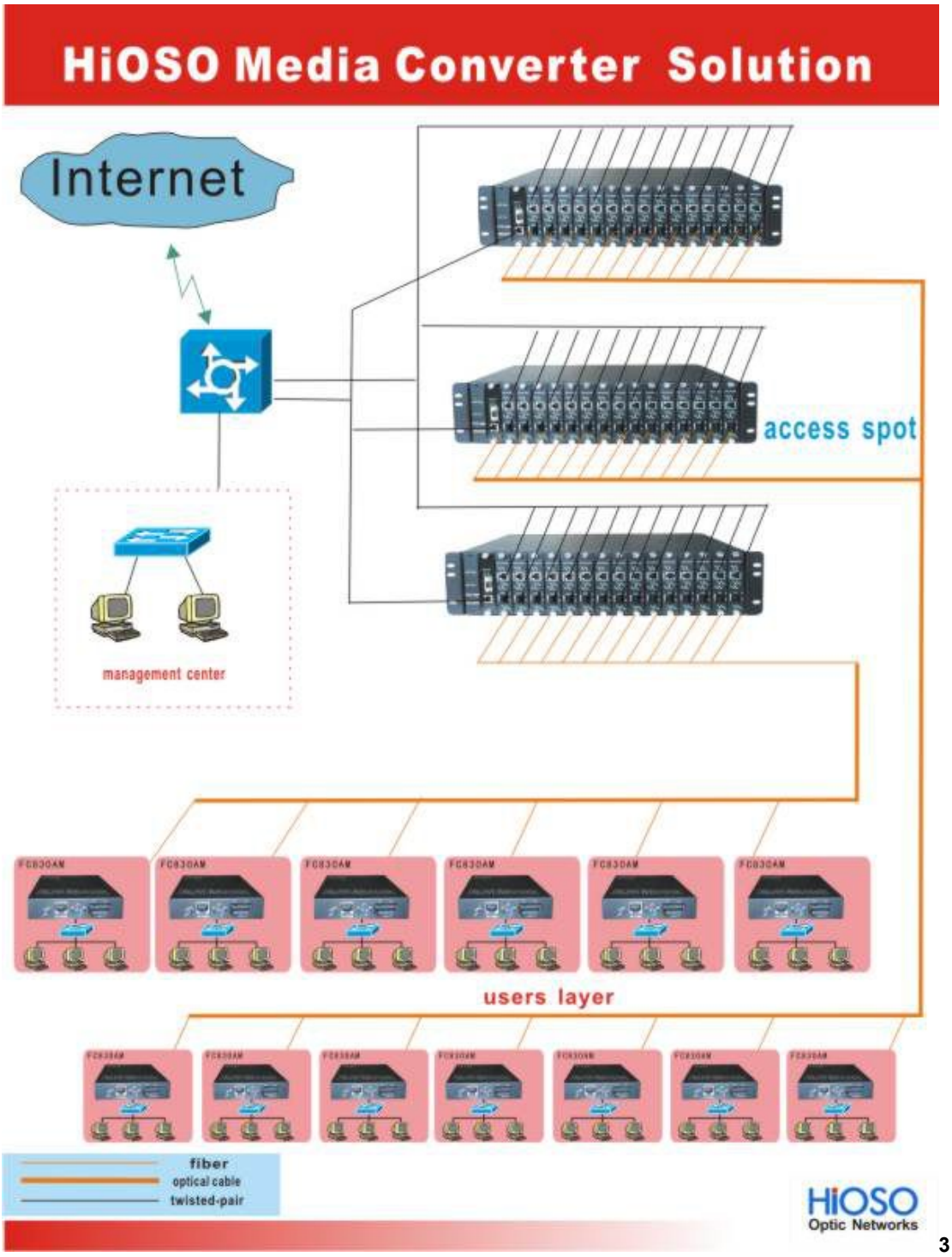
Model	Rate (Mbps)	Conversion Mode	Working Wavelength (nm)	Multi-mode Transmission Distance	Single-mode Transmission Distance	Fiber Interface	Power
FC155FP-M13SC2-S13SC25/40/60	155	Multi-mode to single-mode	1310-1310	2km	25/40/60km	SC	AC220V/ DC-48V
FC155FP-M13SC2-S15SC80/100/120	155	Multi-mode to single-mode	1310-1550	2km	80/100/120km	SC	AC220V/ DC-48V
FC155FC-M13SC2-S13SC25/40/60	155	Multi-mode to single-mode	1310-1310	2km	25/40/60km	SC	Module card DC5V
FC155FC-M13SC2-S15SC80/100/120	155	Multi-mode to single-mode	1310-1550	2km	80/100/120km	SC	Module card DC5V

Solutions

1. Node type media converter solution



2. Managed type media converter solution



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3. Ring type media converter solution