



SFP/Media Converter

- Fast Ethernet Media Converter
- Gigabit Ethernet Media Converter
- Media Converter Chassis
- Media POE to Fiber Converter
- Mini Media Converter
- VDO Fiber Converter
- 40G QSFP+
- 10G SFP+
- Copper SFP Transceiver
- Active Optical Cable

Fast Ethernet Media Converter



10/100



10/100 WDM



10/100 SFP

Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3x auto-negotiation
- Optional 19" System Chassis holds up to 14 Media Converters
- Extends distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber)
- Auto-negotiation support on RJ-45 port
- Auto-negotiation of duplex(HDX/FDX) on RJ-45 port
- Auto MDI/MDI-X support on RJ-45 port
- Status LED's for TX,FX LINK/ACT, POWER,100M to easily monitor network status
- External power supply
- Supports packet length up to 1600 bytes

Gigabit Ethernet Media Converter



10/100/1000



10/100/1000 WDM



10/100/1000 SFP

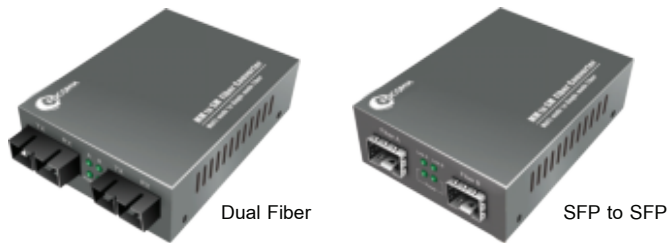
Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE802.3z, IEEE802.3ab, IEEE 802.3x auto-negotiation
- Status LED for easy monitoring of device status
- Extends distances ranging from 550m(multi-mode fiber) to 120km(single-mode fiber)
- Supports auto MDI/MDIX function
- Works at 10Mbps or 100Mbps, full or half-duplex mode, or 1000Mbps full-duplex mode
- Supports jumbo frame size 9K bytes
- External power supply
- Supports independent LFP function

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
10/100	MC-F5-02	Media Converter 10/100 Tx SC, MM, 2Km	1,200.00
	MC-F9-25	Media Converter 10/100 Tx SC, SM, 25Km	1,200.00
	MC-F9-40	Media Converter 10/100 Tx SC, SM, 40Km	1,500.00
	MC-F9-60	Media Converter 10/100 Tx SC, SM, 60Km	2,520.00
	MC-F9-80	Media Converter 10/100 Tx SC, SM, 80Km	5,000.00
	MC-F9-100	Media Converter 10/100 Tx SC, SM, 100Km	7,000.00
10/100 with LFP	MC-F9-120	Media Converter 10/100 Tx SC, SM, 120Km	8,000.00
	MC-F5LFP-02	Media Converter 10/100 Tx SC, MM, 2Km	1,500.00
	MC-F9LFP-25	Media Converter 10/100 Tx SC, SM, 25Km	1,500.00
	MC-F9LFP-40	Media Converter 10/100 Tx SC, SM, 40Km	2,000.00
10/100 WDM	MC-FW13-20	Media Converter 10/100 WDM,1310nm Tx, 1550nm Rx, 20Km	Pair 2,500.00
	MC-FW15-20	Media Converter 10/100 WDM,1550nm Tx, 1310nm Rx, 20Km	
	MC-FW13-40	Media Converter 10/100 WDM,1310nm Tx, 1550nm Rx, 40Km	Pair 3,500.00
	MC-FW15-40	Media Converter 10/100 WDM,1550nm Tx, 1310nm Rx, 40Km	
	MC-FW13-80	Media Converter 10/100 WDM,1310nm Tx, 1550nm Rx, 80Km	Pair 4,500.00
	MC-FW15-80	Media Converter 10/100 WDM,1550nm Tx, 1310nm Rx, 80Km	
10/100/1000	MC-G5-00	Media Converter 10/100/1000 Tx-Fx, SC, MM, 550m	2,500.00
	MC-G9-20	Media Converter 10/100/1000 Tx-Fx, SC, SM, 20Km	2,500.00
	MC-G9-40	Media Converter 10/100/1000 Tx-Fx, SC, SM, 40Km	3,500.00
	MC-G9-80	Media Converter 10/100/1000 Tx-Fx, SC, SM, 80Km	8,000.00
10/100/1000 WDM	MC-GW13-20	Media Converter 10/100/1000 WDM,1310nm Tx, 1550nm Rx, 20Km	Pair 5,500.00
	MC-GW15-20	Media Converter 10/100/1000 WDM,1550nm Tx, 1310nm Rx, 20Km	
	MC-GW13-40	Media Converter 10/100/1000 WDM,1310nm Tx, 1550nm Rx, 40Km	Pair 7,000.00
	MC-GW15-40	Media Converter 10/100/1000 WDM,1550nm Tx, 1310nm Rx, 40Km	
	MC-GW13-80	Media Converter 10/100/1000 WDM,1310nm Tx, 1550nm Rx, 80Km	Pair 18,000.00
	MC-GW15-80	Media Converter 10/100/1000 WDM,1550nm Tx, 1310nm Rx, 80Km	
Media SFP Converter	MC-100-SFP	Media Converter 10/100 Tx-Fx, SFP, SM	1,200.00
	MC-1000-SFP	Media Converter 10/100/1000 Tx-Fx, SFP, SM	2,000.00

SM to MM Media Converter



Features

- Support 100Base-SX/LX multi-mode to single-mode conversion
- Good for application to extend the network distance
- Standalone or composite applications
- External power supply

10G Media Converter



Features

- Support Jumbo Frame
- Transparent Transport and very low delay
- Support ITUT prescribed DWDM/CWDM wavelength
- Support Loopback test function

RS-232/482/422 Converter



Features

- Extend RS-232/485/422 transmission
- Transmit asynchronously, point to point, speed reach 500Kbps
- Examine signal speed automatically, zero delay time
- Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)

RS-232/482/422 Converter WDM



Features

- Extend RS-232/485/422 transmission
- Transmit asynchronously, point to point, speed reach 500Kbps
- Examine signal speed automatically, zero delay time
- Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)

14/16 Slot Media Converter Chassis



14 Slot Standalone



16 Slot Card-type

Features

- Accommodates up to 14 or 16 media converters operating under different protocols
- Supports two load sharing, hot swappable power supplies
- 14 slot Supports 10/100Base-TX/FX or 10/100/1000Base-TX/FX standalone serial converters
- 16 slot Supports 10/100Base-TX/FX or 10/100/1000Base-TX/FX card serial converters

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
SM to MM Media Converter	MC-F-MM-SM	10/100 multi-mode to single-mode	7,000.00
	MC-G-MM-SM	10/100/1000 multi-mode to single-mode	9,000.00
10G Media Converter	MC-10G-80	10G SFP+ Fiber port to 10GBase-T	15,000.00
RS-232/482/422 Converter	MC-RS5-02	Media Converter RS-232/485/422 transmission to Multi-Mode, 2Km, 9V-36VDC, SC	5,000.00
	MC-RS9-20	Media Converter RS-232/485/422 transmission to Single-Mode, 20Km, 9V-36VDC, SC	6,000.00
RS-232/482/422 Converter WDM	MC-RSW13-20	Media Converter RS-232/485/422 WDM,1310nm Tx, 1550nm Rx, 20Km	Pair 15,000.00
	MC-RSW15-20	Media Converter RS-232/485/422 WDM,1550nm Tx, 1310nm Rx, 20Km	
Media Converter Chassis	MC-CH-14	14 Slot Standalone Chassis Rack, Dual power, 220V AC/48V DC	12,000.00
	MC-CH-16	16 Slot Card-type Chassis Rack, Dual power, 220V AC/48V DC	15,000.00

Media POE to Fiber Converter

1*100M FX and 1*10/100/1000M TX with PoE



Features

- IEEE 802.3at, IEEE 802.3af PoE standard compliance
- Provides DC 48V power over RJ45 Ethernet cable to devices with Ethernet port
- Supports a maximum of 40 watts output power
- Support PD detection and PD classification
- Auto-negotiation of duplex(HDX/FDX) on RJ-45 port
- Auto MDI/MDI-X support on RJ-45 port

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
10/100	MC-1POEF540-0.5	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,MM,40 W, 500m	2,500.00
	MC-1POEF940-20	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 20Km	2,600.00
	MC-1POEF940-40	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 40Km	2,800.00
	MC-1POEF940-80	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 80Km	5,000.00
10/100 WDM	MC-1POEF91340-20	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 20Km	Pair 5,500.00
	MC-1POEF91540-20	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 20Km	
	MC-1POEF91340-40	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 40Km	Pair 6,500.00
	MC-1POEF91540-40	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 40Km	
	MC-1POEF91340-80	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 80Km	Pair 12,000.00
	MC-1POEF91540-80	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 80Km	
10/100 SFP	MC-1POESFP-30	10/100M POE Media Converter 10/100/1000M Tx ,SFP,40 W	2,000.00

1*GE SFP and 1*10/100/1000M TX with PoE



Features

- IEEE 802.3at, IEEE 802.3af PoE standard compliance
- Provides DC 48V power over RJ45 Ethernet cable to devices with Ethernet port
- Supports a maximum of 40 watts output power
- Support PD detection and PD classification
- Auto-negotiation of duplex(HDX/FDX) on RJ-45 port
- Auto MDI/MDI-X support on RJ-45 port

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
10/100/1000	MC-1POEG540-0.5	10/100/1000M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,MM,40 W, 500m	3,800.00
	MC-1POEG940-20	10/100/1000M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 20Km	4,000.00
	MC-1POEG940-40	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 40Km	4,500.00
	MC-1POEG940-80	10/100M POE Media Converter 10/100/1000M Tx SC, Dual Fiber,SM,40 W, 80Km	6,500.00
10/100/1000 WDM	MC-1POEG91340-20	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 20Km	Pair 8,000.00
	MC-1POEG91540-20	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 20Km	
	MC-1POEG91340-40	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 40Km	Pair 9,000.00
	MC-1POEG91540-40	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 40Km	
	MC-1POEG91340-80	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1310nm Tx, 1550nm Rx, SM,40 W, 80Km	Pair 14,000.00
	MC-1POEG91540-80	10/100M POE Media Converter 10/100/1000M Tx SC, WDM,1550nm Tx, 1310nm Rx, SM,40 W, 80Km	
10/100/1000 SFP	MC-1GPOESFP-40	10/100/1000M POE Media Converter 10/100/1000M Tx ,SFP,40 W	3,000.00

หมายเหตุ

ตารางเปรียบเทียบการทำงานในฟังก์ชันที่มี LFP และไม่มี LFP เมื่อทำงานร่วมกับ Ethernet Switch Spaning Tree Protocol ดังนี้

สถานการณ์ที่	ผู้ดูแลระบบ	Switch spanning tree + Media Converter มี LFP		Switch spanning tree + Media Converter ไม่มี LFP	
		สถานการณ์ที่	สถานการณ์ที่	สถานการณ์ที่	สถานการณ์ที่
1 ทำงานปกติ	ระบบมอนิเตอร์ (Switch)	ปกติ	ปกติ	ปกติ	ปกติ
	ผู้ดูแลระบบ (คน)	ปกติ	ปกติ	ปกติ	ปกติ
	ผู้ใช้งาน (คน)	ปกติ	ปกติ	ปกติ	ปกติ
2 ขาด 1 เส้น	ระบบมอนิเตอร์ (Switch)	! พบการเชื่อมต่อผิดพลาด	แจ้งเตือน	ปกติ	ปกติ (ไม่แจ้งเตือน)
	ผู้ดูแลระบบ (คน)	! พบการแจ้งเตือน	ซ่อมบำรุง	ปกติ	ปกติ (ต้องซ่อมบำรุง)
	ผู้ใช้งาน (คน)	ปกติ	ปกติ	ปกติ	ปกติ
3 ขาด 2 เส้น	ระบบมอนิเตอร์ (Switch)	สถานการณ์นี้อาจไม่เกิดขึ้นกับเครือข่ายที่ใช้โมดูลชนิด LFP เพราะเมื่อเหตุการณ์ที่ 2 เกิดขึ้น ผู้ดูแลระบบจะรู้ถึง การชำรุดเสียหาย และเข้าแก้ไขได้ทันที	ปกติ	ปกติ	ปกติ
	ผู้ดูแลระบบ (คน)		ปกติ	ปกติ	ปกติ
	ผู้ใช้งาน (คน)		ปกติ	เสีย	ใช้งานไม่ได้

จากตารางฟังก์ชันของ LFP และ LFS มีวัตถุประสงค์ที่เหมือนกันคือ เมื่อมีพอร์ตหนึ่งพอร์ตใดของ Media Converter ขาดหายไป Media Converter จะต้อง Shut Down อีกรายการที่เหลือนั่นเอง

Mini Media Converter

Duplex Fiber Media Converter



10/100



10/100/1000

Features

- Interface: Twisted pair cable: RJ45; Fiber: SC/ST/FC
- 100 base LED: PWR, FX 100, FX Link/Act, FDX, TX 100, TX Link/Act
- Transmission Speed: LAN cable: 10Mbps, 100Mbps, Fiber: 100Mbps
- Duplex Way: Ethernet duplex or half duplex
- Flow control: Full duplex IEEE 802.3x flow control: Half duplex back flow control
- Environment Temperature : -20~65°C
- Storage Temperature : -20~70°C

Single Fiber Media Converter



10/100 WDM



10/100/1000 WDM

Features

- Interface: Twisted pair cable: RJ45; Fiber: SC/ST/FC
- 100 base LED: PWR, FX 100, FX Link/Act, FDX, TX 100, TX Link/Act
- Transmission Speed: LAN cable: 10Mbps, 100Mbps, Fiber: 100Mbps
- Duplex Way: Ethernet duplex or half duplex
- Flow control: Full duplex IEEE 802.3x flow control: Half duplex back flow control
- Environment Temperature : -20~65°C
- Storage Temperature : -20~70°C

Media Converter Power Tray



Features

- Trays qty: 18.
- The power supply output ripple and noise is less than 50mV.
- Power supply: can choose single or dual supply.
- Good heat dissipation design, to ensure the normal operation of equipment.
- Application of WTB series transceiver (10M, 100M, 100M, 10/100M adaptive)

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
10/100	MCM-F5-02	Mini Media Converter 10/100 Tx SC, MM, 2Km	1,600.00
	MCM-F9-20	Mini Media Converter 10/100 Tx SC, SM, 20Km	1,800.00
10/100 WDM	MCM-FW13-20	Mini Media Converter 10/100 WDM 1310nm Tx, 1550nm RX, 20Km	Pair 4,000.00
	MCM-FW15-20	Mini Media Converter 10/100 WDM, 1550nm Tx, 1310nm Rx, 20Km	
10/100/1000	MCM-G5-02	Mini Media Converter 10/100/1000 Tx SC, MM, 2Km	3,500.00
	MCM-G9-20	Mini Media Converter 10/100/1000 Tx SC, SM, 20Km	3,500.00
10/100/1000 WDM	MCM-GW-13-20	Mini Media Converter 10/100/1000 WDM, 1310nm Tx, 1550nm Rx, 20Km	Pair 8,000.00
	MCM-GW-15-20	Mini Media Converter 10/100/1000 WDM, 1550nm Tx, 1310nm Rx, 20Km	
Media Converter Power Tray	MCM-CH-18	18 Slot Media converter rackmount chasis, 12V, 1.5U height	17,000.00



Description

Focomm series video optical transceiver adopts the advanced digital video and optical fiber transmission technology, and implement the real-time transmission & synchronization, no-distortion and high quality 1-channel video signal on the single fiber. 1, 2, 4, 8, 16, 32, 64 channel video optical transceiver adopts the full digital video non-compression transmission technology and high quality video effect, which can meet the user's requirements; the play-and-plug design makes the installation more convenient and easier.

Features

- 8/10-bit digital code and non-compression type video transmission
- Support any high-resolution video signal
- 5Hz-10MHz video channel
- Automatic compatible PAL, NTSC and SECAM video system
- With APC circuit, constant input optical power, and large dynamic range
- Kilomega optical fiber transmission, large capacity, and easy to upgrade
- Power supply and other parameter state indication, which can monitor the operation condition of system
- Support no-damage regenerative trunk of video
- Advanced self-adapting technology, and it is unnecessary to implement the adjustment of spot electrics or optics when using
- Industry-grade design and modularization design make the equipment reliable and flexible

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
VDO Fiber Converter	VDC-1V1D-FC20T/R-1080	1 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS485 Data, 20 Km, FC	Pair 4,100.00
	VDC-2V1D-FC20T/R-1080	2 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data, 20 Km, FC	Pair 6,600.00
	VDC-4V1D-FC20T/R-1080	4 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data, 20 Km, FC	Pair 9,000.00
	VDC-8V1D-FC20T/R-1080	8 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data, 20 Km, FC	Pair 20,200.00
	VDC-16V1D-FC20T/R-1080	16 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data 20 Km, FC	Pair 51,000.00
	VDC-32V1D-FC20T/R-1080	32 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data 20 Km, FC	Pair 90,000.00
	VDC-64V1D-FC20T/R-1080	64 CH 1080P TVI/CVI/AHD Video Converter, WDM, RS 485 Data 20 Km, FC	Pair 180,000.00

Audio to Fiber Converter



1 CH



2 CH



4 CH



8 CH



16 CH

Features

- 1,2,4,8,16 Channel bidirectional Audio RCA to Fiber Optic Converter 20km

VGA to Fiber Converter

VGA Fiber converter



VGA + KVM(USB) Fiber converter



Features

- Through a one core single mode fiber can transmit one-way VGA video, stereo audio signals
- Support for up to VGA resolution up to 1080P / 60HZ

DVI to Fiber Converter

DVI Fiber converter



DVI + KVM(USB) Fiber converter



Features

- Support for up to DVI resolution up to 1080P / 60HZ
- Optical fiber transmission distance up to 20KM
- The device supports DVI, Audio Interface

Features

- Optical fiber transmission distance up to 20KM
- The device supports DVI, Audio Interface
- Support for KVM, USB mouse and keyboard to remotely control

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
Audio to Fiber Converter	MC-A-1AVT/R-F9-20	1 CH Audio, RCA, SM, WDM, 20Km, FC	Pair 3,500.00
	MC-A-2AVT/R-F9-20	2 CH Audio, RCA, SM, WDM, 20Km, FC	Pair 4,000.00
	MC-A-4AVT/R-F9-20	4 CH Audio, RCA, SM, WDM, 20Km, FC	Pair 7,000.00
	MC-A-8AVT/R-F9-20	8 CH Audio, RCA, SM, WDM, 20Km, FC	Pair 16,000.00
	MC-A-16AVT/R-F9-20	16 CH Audio, RCA, SM, WDM, 20Km, FC	Pair 30,000.00
VGA to Fiber Converter	H-VGAT/R-F9-20	VGA to Fiber Converter, SM 20Km, WDM, SC	Pair 5,000.00
	H-VGAT/R-USB-F9-20	VGA to Fiber Converter with USB, SM 20Km, WDM, SC	Pair 6,000.00
DVI to Fiber Converter	H-DVIT/R-F9-20	DVI to Fiber Converter, SM 20Km, WDM, SC	Pair 7,500.00
	H-DVIT/R-USB-F9-20	DVI to Fiber Converter with USB, SM 20Km, WDM, SC	Pair 10,000.00

HDMI TO Fiber Optic

HDMI Fiber converter



Features

- Transmits HDMI video and audio signals up to 20km over one fiber optic cable
- Support video resolution up to 1920*1080@60Hz
- Compliance with HDMI 1.3 and HDCP 1.2 standard

HDMI fiber converter + extender



Features

- Transmits HDMI video and audio signals up to 20km over one fiber optic cable
- Support video resolution up to 1920*1080@60Hz
- Compliance with HDMI 1.3 and HDCP 1.2 standard

HDMI with USB Uncompressed lossless



Features

- T HDMI video signal Uncompressed lossless and non-delay transmission.
- Support KVM signal control mouse keyboard
- Compliance with HDMI 1.3 and HDCP 1.2 standard
- Support video resolution up to 1920*1080@60Hz

HDMI +KVM(USB) Fiber converter



Features

- Transmits HDMI video and audio signals up to 20km over one fiber optic cable
- Support video resolution up to 1920*1080@60Hz
- Compliance with HDMI 1.3 and HDCP 1.2 standard

HDMI Uncompressed lossless



Features

- HDMI transmitter 1 channel HDMI signal input and 1 channel HDMI signal 1 channel audio stereo loop out, HDMI receiver 1 channel HDMI signal and 1 channel audio signal output.

FXO/FXS Telephone Voice Fiber Converter



1 CH



2 CH



4 CH



8 CH



16 CH

Features

- FXO/FXS 1,2,4,8,16 channel telephone voice with 1 -CH 100M Ethernet fiber converter

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
HDMI TO Fiber Optic	MC-H-HDMI-F9-20	HDMI Fiber converter, 20Km, WDM	Pair 5,500.00
	MC-H-HDMI-F9-20	HDMI +KVM(USB) Fiber converter, 20Km, WDM	Pair 8,000.00
	MC-H-HDMI-EX-F9-20	HDMI fiber converter + extender, 20Km, WDM	Pair 8,500.00
	MC-H-HDMI-EX-LL-F9-20	HDMI Uncompressed lossless, non-delay over fiber converter extender, 20Km, WDM	Pair 9,000.00
	MC-H-HDMI-USB-EX-LL-F9-20	HDMI with USB Uncompressed lossless and non-delay to fiber converter extender, 20Km, WDM	Pair 11,000.00
FXO/FXS Telephone Voice	MC-PCM-1V1L-F9-20	FXO/FXS 1-channel telephone voice with 1 -CH 100M Ethernet fiber converter	Pair 4,000.00
	MC-PCM-2V1L-F9-20	FXO/FXS 2-channel telephone voice with 1 -CH 100M Ethernet fiber converter	Pair 4,500.00
	MC-PCM-4V1L-F9-20	FXO/FXS 4-channel telephone voice with 1 -CH 100M Ethernet fiber converter	Pair 5,500.00
	MC-PCM-8V1L-F9-20	FXO/FXS 8-channel telephone voice with 1 -CH 100M Ethernet fiber converter	Pair 7,500.00
	MC-PCM-16V1L-F9-20	FXO/FXS 16-channel telephone voice with 1 -CH 100M Ethernet fiber converter	Pair 14,000.00

Compatible

CISCO, HP, 3COM

JUNIPER, ALCATEL

ERICSSON, NORTEL

HUAWEI, ZTE, H3C

TP-LINK, D-LINK

40Gb/s

High Speed



40G QSFP+



Ordering Table

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	Other	Price
MC-QSFP+-40G-SR4	40Gbps	850nm	150m	-7.6~1dBm	<-9.5dBm	MPO/MMF	5,000.00
MC-QSFP+-40G-ESR4	40Gbps	850nm	300m	-7.3~1dBm	<-9.9dBm	MPO/MMF	7,000.00
MC-QSFP+-40G-IR4-PSM	40Gbps	1310nm	2km	-7.6~0.5dBm	<-11.5dBm	MPO/SMF	20,000.00
MC-QSFP+-40G-LR4-PSM	40Gbps	1310nm	10km	-6~-1dBm	<-12.6dBm	MPO/SMF	22,000.00
MC-QSFP+-40G-IR4	40Gbps	CWDM	2km	-7~2.4dBm	<-11.7dBm	2xLC/SMF	20,000.00
MC-QSFP+-40G-LR4	40Gbps	CWDM	10km	-7~2.3dBm	<-13.7dBm	2xLC/SMF	22,000.00

10G SFP+



Ordering Table / Double Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP+10GB-SR	10G	850nm	300m	-8.2~-1dBm	<-9.9dBm	Yes	1,400.00
MC-SFP+10GB-LR	10G	1310nm	10km	-6~-0.5dBm	<-14.4dBm	Yes	2,000.00
MC-SFP+10GB-ER	10G	1550nm	40km	-1~2dBm	<-14.4dBm	Yes	12,000.00
MC-SFP+10GB-ZR	10G	1550nm	80km	0~4dBm	<-23dBm	Yes	22,000.00

Ordering Table / Single Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP+ BIDI-12-10D	10G	1270nm	10km	-6~-1dBm	<-15dbm	Yes	8,000.00
MC-SFP+ BIDI-13-10D	10G	1330nm	10km	-6~-1dbm	<-15dBm	Yes	8,000.00
MC-SFP+ BIDI-12-40D	10G	1270nm	40km	-1~4dBm	<-16.5dbm	Yes	9,000.00
MC-SFP+ BIDI-13-40D	10G	1330nm	40km	-1~4dbm	<-16.5dBm	Yes	9,000.00

Ordering Table / CWDM/DWDM

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP+ CWDM-XX-40D ^{Note1}	10G	CWDM ^{Note2}	40km	-1~4dBm	<-15.5dBm	Yes	30,000.00
MC-SFP+ CWDM-XX-80D ^{Note1}	10G	CWDM ^{Note2}	80km	0~5dBm	<-23.5dBm	Yes	34,000.00
MC-SFP+ DWDM-XX-40D ^{Note3}	10G	DWDM ^{Note3}	40km	-1~4dBm	<-15.5dBm	Yes	30,000.00
MC-SFP+ DWDM-XX-80D ^{Note3}	10G	DWDM ^{Note3}	80km	0~5dBm	<-23dBm	Yes	36,000.00

10G XFP



Ordering Table / Double Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-XFP-10GB-SR	10G	850nm	300m	-7.1~-3dBm	<-11dBm	Yes	3,500.00
MC-XFP-10GB-LR	10G	1310nm	10km	-6~-1dBm	<-13dBm	Yes	4,000.00
MC-XFP-10GB-ER	10G	1550nm	40km	-4~2dBm	<-16dBm	Yes	12,000.00
MC-XFP-10GB-ZR	10G	1550nm	80km	-2~5dBm	<-23dBm	Yes	30,000.00

Ordering Table / Single Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-XFP-BIDI-12-10D	10G	1270nm	10km	-6~-1dBm	<-15dbm	Yes	12,000.00
MC-XFP-BIDI-13-10D	10G	1330nm	10km	-6~-1dBm	<-15dbm	Yes	12,000.00
MC-XFP-BIDI-12-40D	10G	1270nm	40km	-1~4dBm	<-16.5dbm	Yes	15,000.00
MC-XFP-BIDI-13-40D	10G	1330nm	40km	-1~4dBm	<-16.5dbm	Yes	15,000.00

Ordering Table / CWDM/DWDM

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-XFP-CWDM-xx-40D ^{Note1}	10G	CWDM ^{Note2}	40km	-1~4dBm	<-16.5dBm	Yes	36,000.00
MC-XFP-CWDM-xx-80D ^{Note1}	10G	CWDM ^{Note2}	80km	0~5dBm	<-24dBm	Yes	40,000.00
MC-XFP-DWDM-xx-40D ^{Note3}	10G	DWDM ^{Note3}	40km	-1~4dBm	<-16.5dBm	Yes	36,000.00
MC-XFP-DWDM-xx-80D ^{Note3}	10G	DWDM ^{Note3}	80km	0~5dBm	<-24dBm	Yes	54,000.00

Note

1. XX refers to CWDM Wavelength range 1470nm to 1610nm, XX=47~61 means 1470nm to 1610nm.

2. Wavelength from 1470nm to 1610nm, each step 20nm. Please contact Optone to confirm the wavelength availability.

3. XX refers to DWDM Wavelength channel as ITU-T specified, Please contact Focomm to confirm the wavelength availability.

บริษัท โฟคคอมม (ประเทศไทย) จำกัด

12 ซอยสุขาภิบาล 5 ซอย 5 แยก 3 แขวงท่าแร้ง เขตบางเขน กรุงเทพฯ 10220 โทร. 063-391-5262 โทร. 02-557-6451 แฟกซ์. 02-557-6452

www.focomm-cabling.com

155M ~ 2.67CWDM SFP



Ordering Table

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP-CWDM-SM-01xx	155M	CWDM	40km	-5~0dBm	<-33dBm	Yes	5,000.00
MC-SFP-CWDM-SM-01xx	155M	CWDM	80km	-5~0dBm	<-34dBm	Yes	4,000.00
MC-SFP-CWDM-SM-02xx	1.25G	CWDM	40km	-5~0dBm	<-24dBm	Yes	6,000.00
MC-SFP-CWDM-SM-02xx	1.25G	CWDM	80km	0~5dBm	<-24dBm	Yes	4,500.00
MC-SFP-CWDM-SM-03xx	2.5G	CWDM	40km	0~5dBm	<-18dBm	Yes	10,000.00
MC-SFP-CWDM-SM-03xx	2.5G	CWDM	80km	0~5dBm	<-28dBm	Yes	9,000.00

Note

- xx refers to CWDM Wavelength range 1270nm to 1610nm, xx=27~61 means 1270nm to 1610nm
- Wavelengths from 1270nm to 1610nm, each step 20nm

155m ~ 2.67G SFP



SFP-MM



SFP-SM

Ordering Table / Double Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP-SX-MM-0102	155M	1310nm	2km	-18~-10dbm	<-32dbm	Yes	800.00
MC-SFP-LX-SM-0120	155M	1310nm	20km	-15~-8dbm	<-33dbm	Yes	700.00
MC-SFP-LX-SM-0140	155M	1310nm	40km	-9~-3dBm	<-33dBm	Yes	1,000.00
MC-SFP-ZX-SM-0160	155M	1550nm	60km	-5~0dBm	<-34dBm	Yes	3,000.00
MC-SFP-ZX-SM-0180	155M	1550nm	80km	0~5dBm	<-34dBm	Yes	3,400.00
MC-SFP-SX-MM-0605	622M	850nm	550m	-9~-3dBm	<-17dBm	Yes	1,000.00
MC-SFP-LX-SM-0620	622M	1310nm	20km	-14~-8dBm	<-28dBm	Yes	1,200.00
MC-SFP-LX-SM-0640	622M	1310nm	40km	-3~-2dBm	<-28dBm	Yes	1,800.00
MC-SFP-ZX-SM-0680	622M	1550nm	80km	-3~-2dBm	<-28dBm	Yes	4,000.00
MC-SFP-SX-MM-0205	1.25G	850nm	550m	-9~-3dBm	<-17dBm	Yes	800.00
MC-SFP-LX-SM-0210	1.25G	1310nm	10km	-9~-3dBm	<-22dBm	Yes	800.00
MC-SFP-LX-SM-0240	1.25G	1310nm	40km	-5~0dBm	<-24dBm	Yes	1,000.00
MC-SFP-ZX-SM-0280	1.25G	1550nm	80km	0~5dBm	<-25dBm	Yes	3,000.00
MC-SFP-ZX-SM-02120	1.25G	1550nm	120km	0~5dBm	<-32dBm	Yes	10,000.00
MC-SFP-SX-MM-0303	2.5G	850nm	300m	-9~-3dBm	<-18dBm	Yes	1,500.00
MC-SFP-LX-SM-0302	2.5G	1310nm	2km	-9~-3dBm	<-18dBm	Yes	2,000.00
MC-SFP-LX-SM-0315	2.5G	1310nm	15km	-5~0dBm	<-18dBm	Yes	2,500.00
MC-SFP-LX-SM-0340	2.5G	1310nm	40km	-2~-3dBm	<-18dBm	Yes	3,000.00
MC-SFP-ZX-SM-0380	2.5G	1550nm	80km	0~5dBm	<-28dBm	Yes	7,000.00
MC-SFP-ZX-SM-03120	2.5G	1550nm	120km	2~-7dBm	<-28dBm	Yes	15,000.00

155m ~ 2.67G BIDI SFP



Ordering Table / Single Fiber

Model	Rate	Wavelength	Distance	Optical power	Sensitivity	DDM/DOM	Price
MC-SFP-WDM-SM-0120A	155M	1550nm	20km	-15~-8dbm	<-33dbm	Yes	2,000.00
MC-SFP-WDM-SM-0120B	155M	1310nm	20km	-15~-8dbm	<-33dbm	Yes	2,000.00
MC-SFP-WDM-SM-0140A	155M	1550nm	40km	-9~-3dBm	<-33dbm	Yes	3,000.00
MC-SFP-WDM-SM-0140B	155M	1310nm	40km	-9~-3dBm	<-33dbm	Yes	3,000.00
MC-SFP-WDM-SM-0160A	155M	1550nm	60km	-5~0dBm	<-34dbm	Yes	7,000.00
MC-SFP-WDM-SM-0160B	155M	1490nm	60km	-5~0dBm	<-34dbm	Yes	7,000.00
MC-SFP-WDM-SM-0180A	155M	1550nm	80km	-5~0dBm	<-34dbm	Yes	7,500.00
MC-SFP-WDM-SM-0180B	155M	1490nm	80km	-5~0dBm	<-34dbm	Yes	7,500.00
MC-SFP-WDM-SM-0203A	1.25G	1550nm	3km	-9~-3dBm	<-21dBm	Yes	1,500.00
MC-SFP-WDM-SM-0203B	1.25G	1310nm	3km	-9~-3dBm	<-21dBm	Yes	1,500.00
MC-SFP-WDM-SM-0220A	1.25G	1550nm	20km	-9~-3dBm	<-22dBm	Yes	2,000.00
MC-SFP-WDM-SM-0220B	1.25G	1310nm	20km	-9~-3dBm	<-22dBm	Yes	2,000.00
MC-SFP-WDM-SM-0240A	1.25G	1550nm	40km	-5~0dBm	<-23dBm	Yes	2,500.00
MC-SFP-WDM-SM-0240B	1.25G	1310nm	40km	-5~0dBm	<-23dBm	Yes	2,500.00
MC-SFP-WDM-SM-0260A	1.25G	1550nm	60km	-2~3dBm	<-24dBm	Yes	4,500.00
MC-SFP-WDM-SM-0260B	1.25G	1490nm	60km	-2~3dBm	<-24dBm	Yes	4,500.00
MC-SFP-WDM-SM-0280A	1.25G	1550nm	80km	0~5dBm	<-24dBm	Yes	5,000.00
MC-SFP-WDM-SM-0280B	1.25G	1490nm	80km	0~5dBm	<-24dBm	Yes	5,000.00
MC-SFP-WDM-SM-02120A	1.25G	1550nm	120km	0~5dBm	<-32dBm	Yes	10,000.00
MC-SFP-WDM-SM-02120B	1.25G	1490nm	120km	0~5dBm	<-32dBm	Yes	10,000.00
MC-SFP-WDM-SM-0320A	2.5G	1550nm	20km	-5~0dBm	<-18dBm	Yes	8,000.00
MC-SFP-WDM-SM-0320B	2.5G	1310nm	20km	-5~0dBm	<-18dBm	Yes	8,000.00
MC-SFP-WDM-SM-0340A	2.5G	1550nm	40km	-2~3dBm	<-20dBm	Yes	9,000.00
MC-SFP-WDM-SM-0340B	2.5G	1310nm	40km	-2~3dBm	<-20dBm	Yes	9,000.00
MC-SFP-WDM-SM-0380A	2.5G	1550nm	80km	0~5dBm	<-28dBm	Yes	12,000.00
MC-SFP-WDM-SM-0380B	2.5G	1490nm	80km	0~5dBm	<-28dBm	Yes	12,000.00

Copper SFP Transceiver



1000 M



10/100/1000 M

Ordering Table

Model	Rate	Distance	Connector	Price
MC-GLC-T-A	1000M	100m	RJ45	2,000.00
MC-GLC-T-B	10/100/1000M	100m	RJ45	2,000.00
MC-SFP+-T	10G	30m	RJ45	9,000.00

ACTIVE OPTICAL CABLE

10G SFP+ AOC



Features

- Complies with IEEE802.3, IEEE802.3u standard
- Supports IEEE802.3at, IEEE802.3af PoE standard
- Support PD detection and PD classification
- Provides 6-port 10/100M RJ45 and 2-port fiber ports
- Supports auto duplex(HDX/FDX) auto MDI/MDIX function
- Auto MDI/MDI-X support on RJ-45 port

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
ACTIVE OPTICAL CABLE	MC-OPT-SFP+-AOC-1	1 meter 10G SFP+ ActiveOptical Cable	3,000.00
	MC-OPT-SFP+-AOC-3	3 meter 10G SFP+ ActiveOptical Cable	3,200.00
	MC-OPT-SFP+-AOC-5	5 meter 10G SFP+ ActiveOptical Cable	3,400.00
	MC-OPT-SFP+-AOC-7	7 meter 10G SFP+ ActiveOptical Cable	3,600.00

40G QSFP+ AOC



Features

- 4 channels full-duplex 850nm parallel active optical cable
- Transmission data rate up to 10.3Gbps per channel
- 4 channels 850nm VCSEL array
- 4 channels PIN photo-detector array
- SFF-8436 QSFP+ compliant
- Hot-pluggable electrical interface

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
ACTIVE OPTICAL CABLE	MC-OPT-QSFP+-AOC-3	3 meter 40G QSFP+ Active Optical Cable	9,000.00
	MC-OPT-QSFP+-AOC-5	5 meter 40G QSFP+ Active Optical Cable	9,200.00
	MC-OPT-QSFP+-AOC-10	10 meter 40G QSFP+ Active Optical Cable	9,600.00
	MC-OPT-QSFP+-AOC-20	20 meter 40G QSFP+ Active Optical Cable	11,000.00

10G SFP+ DAC



Features

- Support for multi-gigabit data rates up to 10.5Gb/s
- Data rates backward compatible to 1Gb/s
- Hot-pluggable SFP+ 20PIN footprint
- Improved Pluggable Form-factor (IPF) compliant
- Compliant to SFP+ MSA
- Operating case temperature range 0°C to +70°C

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
ACTIVE OPTICAL CABLE	MC-OPT-SFP+-DAC-1	1 meter 10G SFP+ ActiveOptical Cable	1,000.00
	MC-OPT-SFP+-DAC-3	3 meter 10G SFP+ ActiveOptical Cable	1,400.00
	MC-OPT-SFP+-DAC-5	5 meter 10G SFP+ ActiveOptical Cable	1,800.00
	MC-OPT-SFP+-DAC-7	7 meter 10G SFP+ ActiveOptical Cable	2,200.00

40G QSFP+ DAC



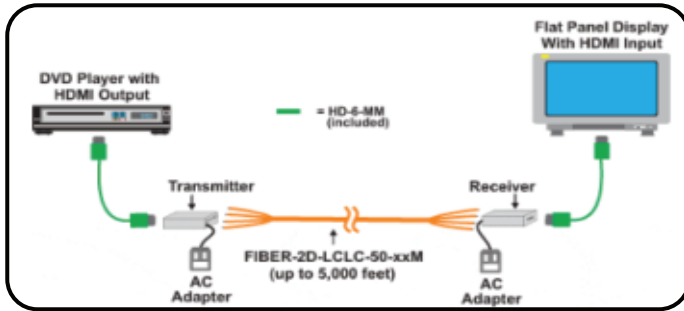
Features

- 4-channel full-duplex passive copper cable
- SFF-8436 compliant QSFP+ connectors
- SFF-8636 compliant I2C management interface
- IEEE 802.3ba 40GBASE-CR4 compliant
- Data rate up to 40Gbps (4x 10Gbps)
- Copper link length up to 5m (passive limiting)

Ordering Table

PRODUCT	PART NUMBER	DESCRIPTION	PRICE
ACTIVE OPTICAL CABLE	MC-OPT-QSFP+-DAC-30-P1	1 meter 40G QSFP+ Passive Copper Cable 30AWG	2,000.00
	MC-OPT-QSFP+-DAC-30-P2	2 meter 40G QSFP+ Passive Copper Cable 30AWG	2,500.00
	MC-OPT-QSFP+-DAC-30-P3	3 meter 40G QSFP+ Passive Copper Cable 30AWG	3,200.00
	MC-OPT-QSFP+-DAC-28-P5	5 meter 40G QSFP+ Passive Copper Cable 28AWG	4,000.00

Media Converter Solution

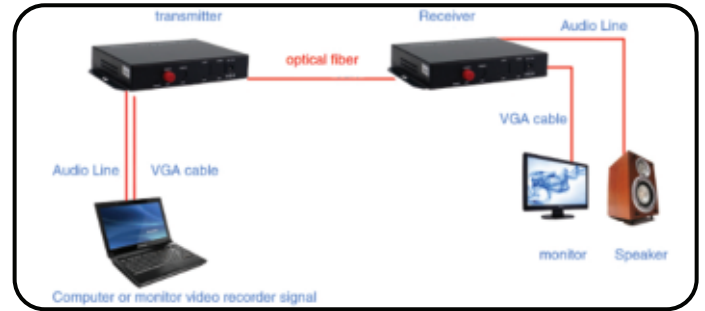


Product Focomm

HDMI TO Fiber Optic

ขยายสัญญาณ HDMI สูงถึง 20 กิโลเมตรผ่านสาย Optical เพียงเส้นเดียว

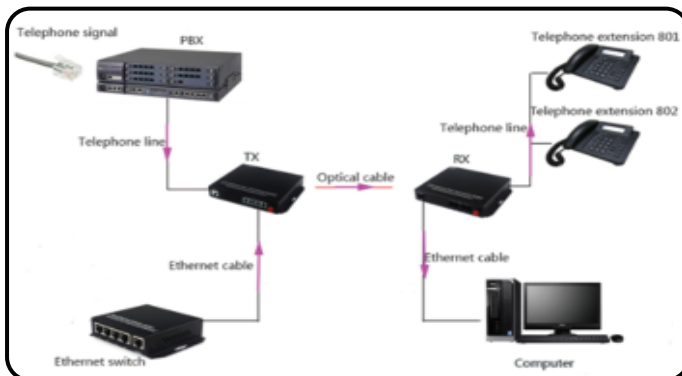
- รองรับความละเอียดสูงสุดถึง 1080p @ 30Hz
- ไฟ LED แสดงสถานะของพลังงานและการเชื่อมต่อ USB ได้อย่างง่ายดาย
- รองรับฟังก์ชัน KVM, การควบคุมระยะไกลได้อย่างสะดวก



Product Focomm

Audio to Fiber Converter

- เชื่อมต่อ RCA
- ความต้านทานอินพุต 600 Ohm 47K
- ความต้านทานเอาต์พุต 600 Ohm 10K



Product Focomm

PCM to Fiber Converter

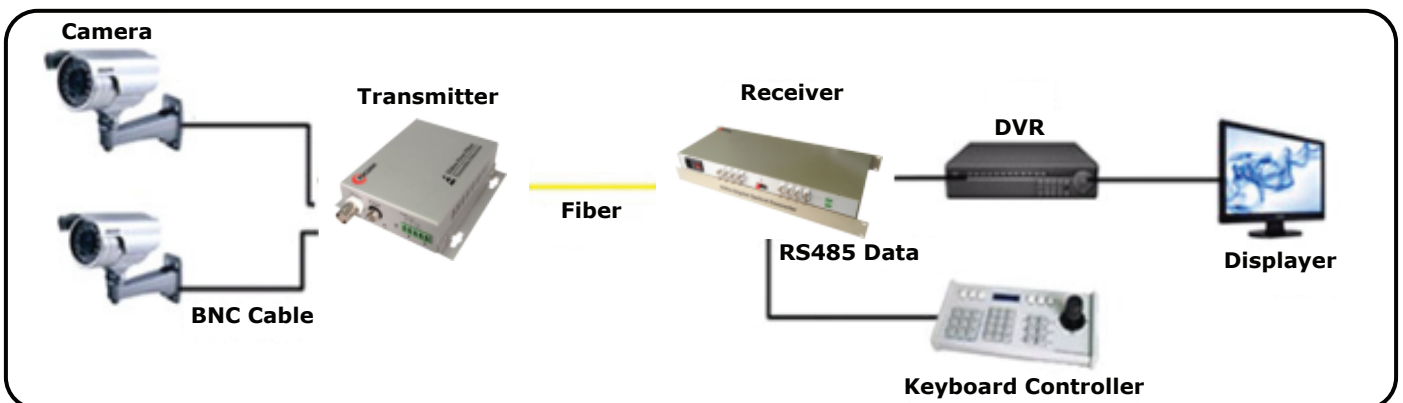
- เสียงคุณภาพสูง fxs / fxo POTS ไฟเบอร์มัลติเพล็กซ์เซอร์
- โยแก้วนำแสงสูญเสียการเชื่อมต่อสูงสุดโมโนโหมดเดียวที่อนุญาตคือ 18dB
- การสูญเสียการเชื่อมต่อสูงสุด 62.5 / 125 มม. โยแก้วนำแสงคือ 12dB โทรศัพท์ 4 ช่อง



Product Focomm

VGA to Fiber Converter

- ไฟเบอร์ 1 core สามารถส่งสัญญาณวิดีโอ VGA แบบทิศทางเดียว เสียง สเตอริโอและสัญญาณ KVM ได้
- รองรับความละเอียดสูงสุดถึง VGA สูงถึง 1080p / 60Hz
- ระยะการส่งผ่านโยแก้วนำแสงสูงถึง 20KM
- อุปกรณ์รองรับ VGA, Audio Interface
- รองรับ KVM, เม้าส์ USB และคีย์บอร์ดเพื่อควบคุมจากระยะไกล



Product Focomm

VDO Fiber Converter

- ประเภท Card หรือโครงสร้างที่เป็นอิสระซึ่งถูกนำไปใช้กับตัวถัง 2.5U การจัดการแบบรวมศูนย์
- รหัสดิจิทัล 8/10 บิตและการส่งผ่านวิดีโอแบบไม่บีบอัด
- รองรับสัญญาณวิดีโอความละเอียดสูง
- ช่องวิดีโอ 5Hz-10MHz
- ระบบวิดีโอ PAL, NTSC และ SECAM ที่เข้ากันได้โดยอัตโนมัติ
- ตัววงจร APC พลังงานแสงที่ป้อนเข้ามาอย่างต่อเนื่อง

- การส่งผ่านโยแก้วนำแสง Kilomega ความจุขนาดใหญ่และง่ายต่อการอัพเกรด
- แหล่งจ่ายไฟและสถานะพารามิเตอร์อื่น ๆ ซึ่งสามารถตรวจสอบสภาพการทำงานของระบบ
- สนับสนุนลำดับการสร้างวิดีโอที่ไม่เสียหาย
- เทคโนโลยีการปรับตัวเองขั้นสูงและไม่จำเป็นต้องปรับใช้สวิตช์ไฟฟ้าหรือเลนส์เมื่อใช้
- การออกแบบในระดับอุตสาหกรรมและการออกแบบแบบแยกส่วนทำให้อุปกรณ์มีความน่าเชื่อถือและยืดหยุ่น