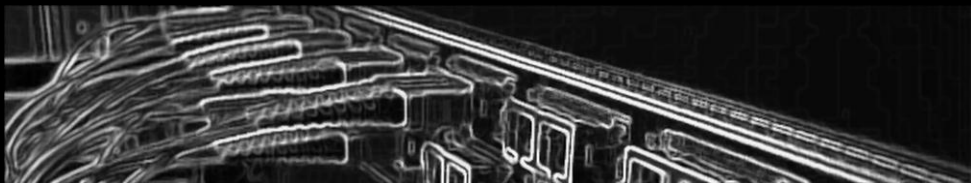


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CASIUS[®]



CATALOG

Optical transceivers – Optical cables – Media converters



Sadržaj

Terms of catalog use.....	2
Terms of sale	2
Basic information about Casius d.o.o.	4
Optical transceivers.....	5
Media convertors.....	10
Media convertor 10/100M.....	10
Media converter 1000M.....	12
Media converter 10/100/100M.....	14
SFP Media converter.....	16
Managed Media Converters	17
Multi-port switch	19
Single mode to Multi mode converter (SM to MM)	21
Rack mount chassis	22
Optic Video Converters	23
1-channel optic video converter.....	23
2-channel optic video converter.....	25
4-channel optic video converter.....	27
8-channel optic video converter.....	29
12, 16, 24, 32 i 64-channel optic video converters	31
HD Video Converter	33
Multiplexers	34
PDH multiplexer (E1 to fiber).....	34
TDMoIP	36
Optical LAN cards	38
Fiber optic patch cords.....	39
OM2 multimode	39
OM3 multimode	40
OS1 singlemode.....	41
Other patch cords.....	42
Attenuators.....	44
Adapters.....	45
Optical connectors.....	46
Opticon substitutions of other hardware vendors	47

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Offer

Casius d.o.o. sells only products from the existing catalog. The catalog is the basis for insight into the products and their properties. Each item in the catalog is marked by its model number and description along with a short technical description. For other product options please send your request by email with small description of wanted product.

Orders

Products can be ordered by phone, fax or e-mail.

Pricing

Prices on offer are in USD/EUR FCO company headquarters Casius Ltd. as net value without added tax (VAT).

Casius has a policy of price stability, but reserves the right to change if the market or supplier price is changed.

Please check the price in writing, electronically or by telephone request before your order!

Delivery

All orders received on weekdays will be delivered within 10 working days FCO Zagreb. If we send goods outside of Zagreb, Croatia, please allow courier delivery time 48/72 hours longer.

Warranty

The warranty period on all products is 36 months unless otherwise stated in the catalog. We are not liable for incidental or consequential damages of products made by the customer or end user. We provide servicing/replacement of products during the warranty and beyond the warranty period.

Reclamations

Please check your goods after delivery at your location !
If the buyer wishes to return goods must seek approval, and must be filled with the following conditions:

- The product must be in original, undamaged packaging
 - It's been less than 15 days from receipt of product
 - In case of error in the catalog, we will replace the product or return the funds if product can't be replaced
 - In the case of incorrect ordering by the customer we are not returning funds
 - We reserve the right to deviate product descriptions and photos in the catalog
- continuous improvement of products

Technical support

We are accepting questions over the phone, fax or e-mail. Allow the standard 24 to 48 hours to give you the answer, with the intention of answering as soon as possible. If insufficient information we will notify you of upcoming deadlines.

Brand

All the goods on offer is a brand OPTICON.

The logo for Opticon, featuring the word "opticon" in a lowercase, sans-serif font. The letters "opti" are in a dark grey color, and the letters "con" are in a bright green color.

Basic information about Casius d.o.o.

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Bank VAT No. : 3337367
Bank OIB : 23057039320
IBAN : HR3324020061100470254
SWIFT : ESBCHR22

Optical transceivers



Model No.	Data Rate	Wavelength	Material	Fiber Type	Media Type	Distance	Tx Power (dbm)	Sen.(dbm)	Temp.
SFP TRANSCEIVER									
SFP-SX-M1002	155M	850nm	FP+PIN	MM	MMF	2km	-15~-5	<-30	0~70
SFP-LH-S1020	155M	1310nm	FP+PIN	SM	SMF	20km	-15~-8	<-31	0~70
SFP-LH-S1040	155M	1310nm	FP+PIN	SM	SMF	40km	-14~-8	<-34	0~70
SFP-ZX-S1060	155M	1310nm	FP+PIN	SM	SMF	60km	-5~0	<-34	0~70
SFP-ZX-S1080	155M	1550nm	DFB+PIN	SM	SMF	80km	-5~0	<-31	0~70
SFP-SX-M2002	1.25Gbps	850nm	VSCSEL+PIN	MM	MMF	0.5km	-9~-4	<-17	0~70
SFP-LH-S2010	1.25Gbps	1310nm	FP+PIN	SM	SMF	10km	-10~-3	<-20	0~70
SFP-LH-S2020	1.25Gbps	1310nm	FP+PIN	SM	SMF	20km	-6~-1	<-22	0~70
SFP-LH-S2030	1.25Gbps	1310nm	FP+PIN	SM	SMF	30km	-5~0	<-23	0~70
SFP-LH-S2030	1.25Gbps	1310nm	DFB+PIN	SM	SMF	30km	-5~0	<-24	0~70
SFP-LH-S2040	1.25Gbps	1310nm	DFB+PIN	SM	SMF	40km	-2~+3	<-24	0~70
SFP-ZX-S2060	1.25Gbps	1550nm	DFB+PIN	SM	SMF	60km	-5~0	<-24	0~70
SFP-ZX-S2080	1.25Gbps	1550nm	DFB+PIN	SM	SMF	80km	0~+5	<-24	0~70

SFP-ZX-S2120	1.25Gbps	1550nm	DFB+APD	SM	SMF	120km	0~+5	<-32	0~70
SFP-SX-M3002	2.5Gbps	850nm	VSCSEL+PIN	MM	MMF	0.3km	-9~-4	<-15	0~70
SFP-LH-S3015	2.5Gbps	1310nm	DFB+PIN	SM	SMF	15km	-5~0	<-18	0~70
SFP-LH-S3040	2.5Gbps	1310nm	DFB+PIN	SM	SMF	40km	-2~+3	<-18	0~70
SFP-ZX-S3080	2.5Gbps	1550nm	DFB+APD	SM	SMF	80km	0~+5	<-28	0~70
SFP-ZX-S3120	2.5Gbps	1550nm	DFB+APD	SM	SMF	120km	+1~+5	<-30	0~70
SFP-ZX-S4002	4.25Gbps	850nm	VSCSEL+PIN	SM	SMF	0.3km	-9~-3	<-15	0~70
SFP-ZX-S4010	4.25Gbps	1310nm	DFB+PIN	SM	SMF	10km	-3~+2	<-18	0~70

SFP BIDI

SFP-WDM-1020-A	155M	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	20km	-14~-8	<-33	0~70
SFP-WDM-1020-B	155M	Tx1550/1310nm	FP+PIN	Bi-di.	SMF	20km	-14~-8	<-33	0~70
SFP-WDM-1040-A	155M	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	40km	-8~-3	<-33	0~70
SFP-WDM-1040-B	155M	Tx1550/1310nm	FP+PIN	Bi-di.	SMF	40km	-8~-3	<-33	0~70
SFP-WDM-1060-A	155M	Tx1310/1550nm	DFB+PIN	Bi-di.	SMF	60km	-6~0	<-34	0~70
SFP-WDM-1060-B	155M	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	60km	-6~0	<-34	0~70
SFP-WDM-2003-A	1.25Gbps	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	3km	-8~-3	<-23	0~70
SFP-WDM-2003-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	3km	-8~-3	<-23	0~70
SFP-WDM-2010-A	1.25Gbps	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	10km	-9~-3	<-20	0~70
SFP-WDM-2010-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	10km	-9~-3	<-20	0~70
SFP-WDM-2020-A	1.25Gbps	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	20km	-8~-3	<-22	0~70
SFP-WDM-2020-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	20km	-8~-3	<-22	0~70
SFP-WDM-2040-A	1.25Gbps	Tx1310/1550nm	DFB+PIN	Bi-di.	SMF	40km	-3~+2	<-23	0~70
SFP-WDM-2040-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	40km	-3~+2	<-23	0~70
SFP-WDM-2080-A	1.25Gbps	Tx1310/1550nm	DFB+PIN	Bi-di.	SMF	80km	-3~+5	<-26	0~70
SFP-WDM-2080-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	80km	-3~+5	<-26	0~70

GBIC

GBIC-SX-M2002	1.25Gbps	850nm	FP+PIN	MM	MMF	0.5km	-10~-3	<-18	0~70
GBIC-LH-S2010	1.25Gbps	1310nm	FP+PIN	SM	SMF	10km	-9~-3	<-20	0~70
GBIC-LH-S2020	1.25Gbps	1310nm	FP+PIN	SM	SMF	20km	-6~-1	<-22	0~70
GBIC-LH-S2040	1.25Gbps	1310nm	FP+PIN	SM	SMF	40km	-3~+2	<-24	0~70
GBIC-ZX-S2080	1.25Gbps	1550nm	DFB+PIN	SM	SMF	80km	0~+5	<-24	0~70
GBIC-WDM-2010-A	1.25Gbps	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	10km	-9~-3	<-20	0~70
GBIC-WDM-2010-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	10km	-9~-3	<-20	0~70
GBIC-WDM-2020-A	1.25Gbps	Tx1310/1550nm	FP+PIN	Bi-di.	SMF	20km	-8~-3	<-22	0~70
GBIC-WDM-2020-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	20km	-8~-3	<-22	0~70
GBIC-WDM-2040-A	1.25Gbps	Tx1310/1550nm	DFB+PIN	Bi-di.	SMF	40km	-3~+2	<-23	0~70
GBIC-WDM-2040-B	1.25Gbps	Tx1550/1310nm	DFB+PIN	Bi-di.	SMF	40km	-3~+2	<-23	0~70

CWDM

SFP-CWDM-2080	1.25Gbps	1470~1610nm	DFB+PIN	SM	SMF	80km	0~+5	<-24	0~70
SFP-CWDM-2080	1.25Gbps	1270~1450nm	DFB+PIN	SM	SMF	80km	0~+5	<-24	0~70
SFP-CWDM-2120	1.25Gbps	1470~1610nm	DFB+APD	SM	SMF	120km	0~+5	<-24	0~70
SFP-CWDM-2120	1.25Gbps	1270~1450nm	DFB+APD	SM	SMF	120km	0~+5	<-24	0~70
SFP-CWDM-3040	2.5Gbps	1270~1610nm	DFB+PIN	SM	SMF	40km	0~+5	<-18	0~70
SFP-CWDM-3080	2.5Gbps	1270~1610nm	DFB+APD	SM	SMF	80km	0~+5	<-18	0~70
CWDM-XFP-40xx	10Gbps	1270~1610nm		SM	SMF	40km			0~70
CWDM-XFP-80xx	10Gbps	1270~1610nm		SM	SMF	80km			0~70
CWDM-X2-40xx	10Gbps	1270~1610nm		SM	SMF	40km			0~70
CWDM-X2-80xx	10Gbps	1270~1610nm		SM	SMF	80km			0~70
CWDM-XENPAK-40xx	10Gbps	1270~1610nm		SM	SMF	40km			0~70
CWDM-XENPAK-80xx	10Gbps	1270~1610nm		SM	SMF	80km			0~70
CWDM-SFP+40xx	10Gbps	1270~1610nm		SM	SMF	40km			0~70

CWDM-SFP+80xx	10Gbps	1270~1610nm	SM	SMF	80km			0~70
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DWDM

SFP-DWDM-2080	1.25Gbps				80km			
SFP-DWDM-3080	2.5Gbps				80km			
DWDM-XFP-40xx	10Gbps				40km			
DWDM-XFP-80xx	10Gbps				80km			
DWDM-X2-40xx	10Gbps				40km			
DWDM-X2-80xx	10Gbps				80km			
DWDM-XENPAK-40xx	10Gbps				40km			
DWDM-XENPAK-80xx	10Gbps				80km			
DWDM-SFP+40xx	10Gbps				40km			
DWDM-SFP+80xx	10Gbps				80km			

Tx

SFP-T	1000M			Copper	100m			0~70
SFP-T	10/100/1000M			Copper	100m			0~70
GBIC-T	1000M			Copper	100m			0~70

10G TRANSCEIVER

XFP-10G-SR03	10Gbps	850nm	MM	MMF	0.3km	-7.3~-1	<-11	0~70
XFP-10G-LR10	10Gbps	1310nm	SM	SMF	10km	-8.2~-0.5	<-13	0~70
XFP-10G-ER40	10Gbps	1550nm	SM	SMF	40km	-5~+4.5	<-16	0~70
XFP-10G-ZR80	10Gbps	1550nm	SM	SMF	80km	0~+4	<-24	0~70
XFP-10G-BIDI10	10Gbps	1270/1330	BIDI	SMF	20km			0~70

Xenpak-10G-SR03	10Gbps	850nm	MM	MMF	0.3km	-5~-1	<-11	0~70
Xenpak-10G-LR10	10Gbps	1310nm	SM	SMF	10km	-8.2~-0.5	<-12	0~70
Xenpak-10G-ER40	10Gbps	1550nm	SM	SMF	40km	-5~+5	<-13	0~70
Xenpak-10G-ZR80	10Gbps	1550nm	SM	SMF	80km	0~+4	<-24	0~70

X2-10G-SR03	10Gbps	850nm	MM	MMF	0.3km	-3~-1	<-11	0~70
X2-10G-LR10	10Gbps	1310nm	SM	SMF	10km	-8.2~0.5	<-13	0~70
X2-10G-ER40	10Gbps	1550nm	SM	SMF	40km	-1~+2	<-11.7	0~70
X2-10G-ZR80	10Gbps	1550nm	SM	SMF	80km	0~+4	<-24	0~70
SFP+10G-SR03	10Gbps	850nm	MM	MMF	0.3km	-7.3~-1.5	<-9.9	0~70
SFP+10G-LR10	10Gbps	1310nm	SM	SMF	10km	-8~0.5	<-12.6	0~70
SFP+10G-ER40	10Gbps	1550nm	SM	SMF	40km	-3~+3	<-14.1	0~70
SFP+10G-ZR80	10Gbps	1550nm	SM	SMF	80km	0~+4	<-24	0~70
SFP+10G-BIDI10	10Gbps	1270/1330	BIDI	SMF	20km			0~70
SFP+10G-LRM	10Gbps	1310nm	SM	MMF/SMF				0~70

For any questions please contact us over the phone, fax or email.

Opticon substitutions for original hardware vendors you can find on page 49.

Media convertors

Media convertor 10/100M



GENERAL DESCRIPTION

The media converter transform the transmission media of Ethernet signal from CAT5 to optical fiber. It can extend the transmission distance to several kilometer or hundred kilometer.

Using media converter is a economical solution to achieve long distance transmission base on current status.

FEATURES

1. Built in a 2-port switch:

- Pass all packets without address and CRC check (optional);
- Supports modified cut-through frame forwarding for low latency;
- Supports pure converter mode data forwarding for extreme low latency;
- Supports flow control for full and half duplex operation;
- Bandwidth control;
- Forward 1600 bytes packet for management;
- Optional forward fragments.

2. Supports 100Base-FX standard;

3. Built in 128Kb RAM for data buffer;

4. Supports auto MDI-MDIX function;

5. Supports link fault pass through function (LFP);

6. Supports for end fault function (optional);

7. LED display for link/activity, full/half, 10/100M

8. Support EEPROM configuration (optional);

9. the longest transmission distance reach 120 kilometers;

STANDARDS:
 IEEE802.3 ETHERNET STANDARD
 IEEE802.3u FAST ETHERNET STANDARD

Model no.	Data rate	Wavelength	Fiber type	Dist.	Power supply
10/100M					
MC-MM-1002	10/100M	1310nm	MM	2km	220VAC/-48VDC
MC-SM-1010	10/100M	1310nm	SM	10km	220VAC/-48VDC
MC-SM-1025	10/100M	1310nm	SM	25km	220VAC/-48VDC
MC-SM-1040	10/100M	1310nm	SM	40km	220VAC/-48VDC
MC-SM-1060	10/100M	1310nm	SM	60km	220VAC/-48VDC
MC-SM-1080	10/100M	1550nm	SM	80km	220VAC/-48VDC
MC-SM-1100	10/100M	1550nm	SM	100km	220VAC/-48VDC
MC-SM-1120	10/100M	1550nm	SM	120km	220VAC/-48VDC
MC-WDM-1025	10/100M	1310nm/1550nm	BIDI	10km	220VAC/-48VDC
MC-WDM-1040	10/100M	1310nm/1550nm	BIDI	40km	220VAC/-48VDC
MC-WDM-1060	10/100M	1310nm/1550nm	BIDI	60km	220VAC/-48VDC

MM-multimode, SM-singlemode

BIDI–bidirectional

WDM- wavelength-division multiplexing

Media converter 1000M

GENERAL DESCRIPTION

This product supports IEEE802.3z 1000Base-Tx/Fx protocol, as well as full duplex and half duplex mode. This manual is for 1000M transceivers.

Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 1000 meter. It features the function of automatically identifying the through line and cross wire

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX.

When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the multi/single mode fiber is connected to SC/ST fiber interface of the optical transceiver. Then switch on. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp)

Technical parameters:

1. Standard Protocol: IEEE 802.3z 1000Base-TX/FX standard

2.Connector:one UTP RJ-45 connector, one SC/ST connector

3. Operation mode: full duplex mode or half duplex mode

4. Power supply parameter:

outside: 5V DC 2A

built-in: 110-265V AC 48VDC

5. Environmental temperature: 0 °C -60 °C

6. Relative humidity: 5%-90%

8. TP cable: Cat5 UTP cable

9. Transfer fiber:

multi-mode: 50/125, 62.5/125 or 100/140μm

single mode: 8.3/125, 8.7/125, 9/125 or 10/125μm

Model no.	Data rate	Wavelength	Fiber type	Dist.	Power supply
1000M					
MC-MM-2002	1000M	850nm	MM	0.5km	220VAC/-48VDC
MC-SM-2010	1000M	1310nm	SM	10km	220VAC/-48VDC

MC-SM-2020	1000M	1310nm	SM	20km	220VAC/-48VDC
MC-SM-2040	1000M	1550nm	SM	40km	220VAC/-48VDC
MC-SM-2080	1000M	1550nm	SM	80km	220VAC/-48VDC
MC-WDM-2010	1000M	1310nm/1550nm	BIDI	10km	220VAC/-48VDC
MC-WDM-2020	1000M	1310nm/1550nm	BIDI	20km	220VAC/-48VDC
MC-WDM-2040	1000M	1310nm/1550nm	BIDI	40km	220VAC/-48VDC
MC-WDM-2080	1000M	1310nm/1550nm	BIDI	80km	220VAC/-48VDC

MM-multimode, SM-singlemode

BIDI-bidirectional

WDM- wavelength-division multiplexing

Media converter 10/100/100M

GENERAL DESCRIPTION

This product supports IEEE802.3 10 Base-T standard/IEEE 802.3u 100Base-TX/FX standard/IEEE 802.3z 1000Base-TX/FX standard, as well as full duplex and half duplex mode.

Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX.

When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the multi/single mode fiber is connected to SC/ST fiber interface of the optical transceiver. Then switch on. The corresponding LED is on for correct connection.

(See the table below for the LED indicator lamp)

Technical parameters:

1. Standard Protocol:

IEEE802.3 10 Base-T standard

IEEE 802.3u 100Base-TX/FX standard

IEEE 802.3z 1000Base-TX/FX standard

2.Connector:oneUTPRJ-45connector,oneSC/STconnector

3. Operation mode: full duplex mode or half duplex mode

4. Power supply parameter:

outside: 5V DC 2A

built-in: 110-265V AC 48VDC

5. Environmental temperature: 0 °C -60 °C

6. Relative humidity: 5%-90%

8. TP cable: Cat5 UTP cable

9. Transfer fiber:

multi-mode: 50/125, 62.5/125 or 100/140μm

single mode:: 8.3/125, 8.7/125, 9/125 or 10/125μm

Model no.	Data rate	Wavele ngth	Fiber type	Dist.	Power supply
10/100/1000M					
MC-MM-3002	10/100/1000M	850nm	MM	0.5km	220VAC/- 48VDC
MC-SM-3010	10/100/1000M	1310nm	SM	10km	220VAC/- 48VDC
MC-SM-3020	10/100/1000M	1310nm	SM	20km	220VAC/- 48VDC
MC-SM-3040	10/100/1000M	1550nm	SM	40km	220VAC/- 48VDC
MC-SM-3080	10/100/1000M	1550nm	SM	80km	220VAC/- 48VDC
MC-SM-3100	10/100/1000M	1550nm	SM	100km	220VAC/- 48VDC
MC-SM-3120	10/100/1000M	1550nm	SM	120km	220VAC/- 48VDC
MC-WDM-3010	10/100/1000M	1310nm/ 1550nm	BIDI	10km	220VAC/- 48VDC
MC-WDM-3025	10/100/1000M	1310nm/ 1550nm	BIDI	25km	220VAC/- 48VDC
MC-WDM-3040	10/100/1000M	1310nm/ 1550nm	BIDI	40km	220VAC/- 48VDC
MC-WDM-3080	10/100/1000M	1310nm/ 1550nm	BIDI	80km	220VAC/- 48VDC

MM-multimode, SM-singlemode

BIDI–bidirectional

WDM- wavelength-division multiplexing

SFP Media converter

These series converters are designed to meet the massive needs for Gigabit network deployment and able to extend a copper based Gigabit network via fiber cable to a maximum distance up to 80KM.

These series converters are fully compliant with IEEE802.3z & 802.3ab standards. It can be installed into a Standard Converter Chassis. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.



Features:

1000Base-T to 1000BASE-SX/LX Converter
Standard: IEEE 802.3z & 802.3ab
Interface: 1 x RJ-45 connector / 1 x SFP Slot
MDI/MDIX Auto-Crossover supported
LED: Power, DUP, FP-LINK, RX, 1000, TX
Plug-and-Play installation
Support Jumbo Frame (64-9216 Byte)
Support Voltage Monitor

Model no.	Data rate	Wavelength	Connector
SFP Media pretvarač			
MC-SFP-11	10/100M	1310nm	1xRJ-45 + 1xSFP port
MC-SFP-12	10/100M	1310nm	2xRJ-45 + 2xSFP port
MC-SFP-21	10/100/1000M	850nm	1xRJ-45 + 1xSFP port
MC-SFP-22	10/100/1000M	1310nm	2xRJ-45 + 2xSFP port

Managed Media Converters



(1). Contents of system

The main contents of managed system is listed below :

1. Net manageable module

It is the key-unit of the system , used to collect the relational information from the media converters installed in the chassis , and manage the functions of media converters . It has one general 10/100M RJ45 port and one general RS232 console port .

2. Full range of Wintop manageable media converters or other manageable cards.

3. 17 slots rack-mounted chassis

19 inch 1U rack-mount chassis, with 17 slots, can support 1 pc Net manageable module and 16 pcs manageable media converters. Normally it will be installed in center, so that the user can manage it easily. It has dual power supply, support NMS function .The fans can be managed.

4. Manageable stand-alone media converters in remote end .

(2). Manageable functions over view

wView manageable system supports full range of standards such as HTTP,SNMP,TFTP,TELNET ...etc .The system has proper interface for each .

1. Support WEB based management

Our manageable system supports the management based on WEB. It is easy to be understood and used, no need install special software, so that it is easier for the users.

2. Support SNMP management

Fully support SNMP, the users can manage the relational devices via any operating system, such as HP-OpenView.

3. Support Console management when emergency

Support local command-string management via Console port, the users can manage the devices via other networks such as Telephone System, in case the Ethernet networks failed.

4. Support TELNET

5.The software can be upgraded online via TFTP.

Model no.	Data rate	Wavelength	Fiber type	Dist.	Power supply
Managed Media Converter					
MC-MM-M1002	10/100M	1310nm	MM	2km	220VAC/-48VDC
MC-SM-M1020	10/100M	1310nm	SM	20km	220VAC/-48VDC
MC-WDM-M1020	10/100M	1310nm	SM	20km	220VAC/-48VDC
MC-MM-M2002	10/100/1000M	850nm	MM	0.5km	220VAC/-48VDC
MC-SM-M2025	10/100/1000M	1310nm	SM	25km	220VAC/-48VDC
MC-WDM-M2020	10/100/1000M	1310nm	SM	20km	220VAC/-48VDC

MM-multimode, SM-singlemode

BIDI–bidirectional

WDM- wavelength-division multiplexing

Multi-port switch



Key Features

- Multi-port 10/100M RJ-45
- 1 & multi port 100Base-Fx, single or multi mode.
- Store and forward mode
- 10/100M auto-negotiation, maximum speed to 20/200M (full-duplex)
- Supports IEEE 802.3x full-duplex flow control and back pressure half-duplex flow control
- Supports MAC self-learning
- Automatic MDI/MDI-X configuration
- Port base VLAN
- LED status of Link, activity, Full/half duplex, speed and power on diagnostic function
- Steel case

Specification

- Standard: IEEE802.3, IEEE802.3u, IEEE802.3x
- Topology: Star
- Transmission Rate 10Mbps: 14880pps, 100Mbps : 148800pps
- Switching mode: Store-and-Forward
- Flow control mode: IEEE 802.3x full-duplex flow control and back pressure flow control
- LED Indicator: LED status of Link, activity, Full/half duplex, speed, and power on diagnostic function
- Cable Support: 10Base-T : 3, 4 or Cat 5 shielded / unshielded twisted pair, 100 meters max. ; 100Base-TX : Cat 5 shielded / unshielded twisted pair, 100 meters max. 100Base-Fx : 8.3 μ m, 8.7 μ m, 9 μ m and 10 μ m on single mode fiber and 50, 62.5 and 100 μ m on multi-mode fiber
- Power supply: AC:220V or DC:-48V
- Temperature Humidity
- Operation: Temperature (-20 °C to 70 °C), Humidity (10% to 90%)
- Storage: Temperature (-40 °C to 75 °C) Humidity (5% to 95% RH)

Model no.	Data rate	Connector	Fiber type	Distance
Multi Ports Media Converter				
MC-MM-1202	10/100M	2Port RJ-45 + 1X SC	MM	2km
MC-SM-1225	10/100M	2Port RJ-45 + 1X SC	SM	25km (40/60/80km)
MC-WDM-1225	10/100M	2Port RJ-45 + 1X SC	BIDI	25km (40/60/80km)
MC-MM-1402	10/100M	4Port RJ-45 + 1X SC	MM	2km
MC-SM-1425	10/100M	4Port RJ-45 + 1X SC	SM	25km (40/60/80km)
MC-WDM-1425	10/100M	4Port RJ-45 + 1X SC	BIDI	25km (40/60/80km)
MC-MM-1602	10/100M	6Port RJ-45 + 1X SC	MM	2km
MC-SM-1625	10/100M	6Port RJ-45 + 1X SC	SM	25km (40/60/80km)
MC-WDM-1625	10/100M	6Port RJ-45 + 1X SC	BIDI	25km (40/60/80km)
MC-MM-1602B	10/100M	6Port RJ-45 + 2X SC	MM	2km
MC-SM-1625B	10/100M	6Port RJ-45 + 2X SC	SM	25km (40/60/80km)
MC-WDM-1625B	10/100M	6Port RJ-45 + 2X SC	BIDI	25km (40/60/80km)

MM-multimode, SM-singlemode

BIDI–bidirectional

WDM- wavelength-division multiplexing

Singe mode to Multi mode converter (SM to MM)



PRODUCT OVERVIEW

This serial converters offer from single-mode to multi-mode, or multi-mode to single mode.

Model no.	Data rate	Conversion	Distance	Power supply
MM to SM				
MM-SM-10	100M	MM to SM	2km/0-120km	220VAC/-48VDC
SM-WDM-10	100M	MM to SM	0-120km/0-120km	220VAC/-48VDC
MM-WDM-10	100M	MM to WDM	0-120km/0-120km	220VAC/-48VDC
MM-SM-20	1000M	MM to SM	0-120km/0-120km	220VAC/-48VDC
SM-WDM-20	1000M	MM to SM	0-120km/0-120km	220VAC/-48VDC
MM-WDM-20	1000M	MM to SM	0.5km/0-120km	220VAC/-48VDC

MM-multimode, SM-singlemode
 BIDI–bidirectional
 WDM- wavelength-division multiplexing

Rack mount chassis

PRODUCT OVERVIEW

We have two types of rack-mounted chassis for unmanaged media converters : 2U 14 slots media converter chassis and 2-U 16 slots media converter chassis .The 14 slots media converter chassis supports plug-and-play installation of stand-alone media converters convert modules ,can hold at most 14 pieces media converters. The 16 slots media converter chassis media converter chassis should be used with card-type media converters .The 16 slots media converter chassis can hold at most 16 card-type converters of 10/100M.

This converter chassis can supply several media converters with power ,this will simple the links and structure , it can work stably and adapt broad width of voltage .It can store strong power and can be operated and managed easily. The maintenance of this chassis is also very easy. This option is the very one to meet the requirements of good stability, high capacity, good integration and good quality.

This option supports hot-swap convert modules .It can work with single power supply or dual power supply as users wish, when the power supply should be maintained or changed ,it is not necessary to pull-out the converters ,this makes the maintenance easy. With all these advantages, this option can supply users with an effective solution of networks.

Model	Opis
EX-R14	14 Port rack double-source power supply 220V/-48V
EX-R16A	16 Port Rack double-source power supply 220V/-48V
EX-R16B	16 Port Rack double-source power supply 220V/-48V with managed function.
EX-SNMP	SNMP Network Managed Card (Managed MC software)

Optic Video Converters

1-channel optic video converter



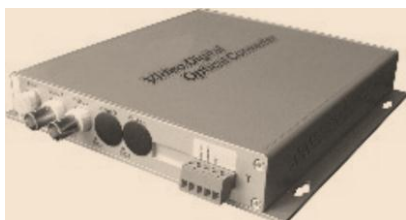
Fiber-optic video transceivers can simultaneously transmit 1 channels of 8-bit & 10-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

PRODUCT CHARACTERISTICS

- 1.8-bit & 10-bit digitally encoded and non-compression video transmission
- 2.Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- 3.Support any high-resolution video signal.
- 4.Automatic compatible PAL, NTSC and SECAM video system
- 5.Power supply and other parameter state indication, which can monitor the operation condition of system
- 6.Support no-damage regenerative trunk of video
- 7.Constant input optical power, and large dynamic range ,no Electrical or Optical adjustments required.
8. Special ASIC design.
9. Industry-grade of operating temperature from -10 to 75, which is applied to the different working environment
- 10.Hot-swap function
- 11.Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

Model no.	Description
VMC-1V	1x Video
VMC-1V1D	1x Video + 1x Data
VMC-1V1A	1x Video + 1x Audio
VMC-1V2D	1x Video + 2x Data
VMC-1V1A1D	1x Video + 1x Audio + 1x Data

2-channel optic video converter



Fiber-optic video transceivers can simultaneously transmit 1 channels of 8-bit & 10-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

PRODUCT CHARACTERISTICS

- 1.8-bit & 10-bit digitally encoded and non-compression video transmission
- 2.Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- 3.Support any high-resolution video signal
- 4.Automatic compatible PAL, NTSC and SECAM video system
- 5.Power supply and other parameter state indication, which can monitor the operation condition of system
- 6.Support no-damage regenerative trunk of video
- 7.Constant input optical power, and large dynamic range ,no Electrical or Optical adjustments required.
8. Special ASIC design.
9. Industry-grade of operating temperature from -10 to 75, which is applied to the different working environment
- 10.Hot-swap function
- 11.Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

Model no.	Description
VMC-2V	2x Video
VMC-2V1D	2x Video + 1x Data
VMC-2V1D1A	2x Video + 1x Data + 1x Audio
VMC-2V2D	2x Video + 2x Data
VMC-2V2D1A	2x Video + 2x Data + 2x Audio

4-channel optic video converter



Fiber-optic video transceivers can simultaneously transmit 4 channels of 8-bit & 10-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

PRODUCT CHARACTERISTICS

- 1.8-bit & 10-bit digitally encoded and non-compression video transmission
- 2.Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- 3.Support any high-resolution video signal.
- 4.Automatic compatible PAL, NTSC and SECAM video system
- 5.Power supply and other parameter state indication, which can monitor the operation condition of system
- 6.Support no-damage regenerative trunk of video
- 7.Constant input optical power, and large dynamic range ,no Electrical or Optical adjustments required .
8. Special ASIC design .
9. Industry-grade of operating temperature from -10 to 75, which is applied to the different working environment
- 10.Hot-swap function
- 11.Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

Model no.	Description
VMC-4V	4x Video
VMC-4V1D	4x Video + 1x Data
VMC-4V1D1A	4x Video + 1x Data + 1x Audio
VMC-4V2D2A	4x Video + 2x Data + 2x Audio
VMC-4V4D	4x Video + 4x Data

8-channel optic video converter



Fiber-optic video transceivers can simultaneously transmit 8 channels of 8-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

PRODUCT CHARACTERISTICS

- 1.8-bit digitally encoded and non-compression video transmission
- 2.Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- 3.Support any high-resolution video signal.
- 4.Automatic compatible PAL, NTSC and SECAM video system
- 5.Power supply and other parameter state indication, which can monitor the operation condition of system
- 6.Support no-damage regenerative trunk of video
- 7.Constant input optical power, and large dynamic range ,no Electrical or Optical adjustments required .
8. Special ASIC design.
9. Industry-grade of operating temperature from -10 to 75, which is applied to the different working environment
- 10.Hot-swap function
- 11.Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

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Model no.	Description
VMC-8V	8x Video
VMC-8V1D	8x Video + 1x Data
VMC-8V1D1A	8x Video + 1x Data + 1x Audio
VMC-8V2D2A	8x Video + 2x Data + 2x Audio

12, 16, 24, 32 i 64-channel optic video converters



Fiber-optic video transceivers can simultaneously transmit 12, 16, 24, 32, 64 channels of 8-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

PRODUCT CHARACTERISTICS

1. 8-bit digitally encoded and non-compression video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal.
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range ,no Electrical or Optical

Adjustments Required .

8. Special ASIC design.

9. Industry-grade of operating temperature from -10 to 75, which is applied to the different working environment

10. Hot-swap function

11. Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

Model	Opis
VMC-12V	12x Video
VMC-12V1D	12x Video + 1x Data
VMC-16V	16x Video
VMC-16V1D	16x Video + 1x Data
VMC-24V	24x Video
VMC-24V1D	24x Video + 1x Data
VMC-32V	32x Video
VMC-32V1D	32x Vide + 1x Data
VMC-64V	64x Video
VMC-64V1D	64x Video + 1x Data

HD Video Converter

Features:

1 Video of SD-SDI/HD-SDI/3G-SDI can be transmitted via 1 single fiber

The highest rate of work is 3.2Gb/s

For SMPTE 292M (2.9Gb/s) clock recovery.

Support standard of 270Mbps(SD-SDI) ,1.485Gbps/M(HD-SDI),SMPTE 425M 3Gb/s

Mapping(3G-SDI),SMPTE 424M 3Gb/s serial interface(3G-SDI)

Out wavelength range is 1310nm, 1550nm and 16 other kind of CWDM wave lengthen (comply with ITU-T G.694.2)

Automatic cable equalization, used for all rates below 3.2 Gb/s (Belden 1694A

LED Status Indication to monitor the working conditions.

Video transmission system can support many application branches structure (reverse data will be failed)

Support video regenerator

Support SFP transceiver hot-plugged

The SDI video format support :

625/25 PAL, 525/29.97 NTSC, 525/23.98 NTSC, 720p50, 720p59.94

1080P 23.98/24/30/50/60, 1080i 23/24/30/50/59.94

Multiplexers

PDH multiplexer (E1 to fiber)



Overview

PDH series optical multiplexer are the small and medium-capacity fiber optical transmission and access equipments developed and manufactured independently by Our company, which apply the latest technology and professional super-sized programmable integrated circuit, and provide multiplexing and demultiplexing and optical-electric transmission of 1E1/4E1/8E1/16E1 digital signals. The rich bit overhead provides not only various capacities of main channel business transmission, such as E1/G.703 interface, V.35 based on 2048kbit/s and 10Base-T interface, but also V.24 low rate data channel and engineering order wire channel.

PDH series optical multiplexer have the remote loop-back function of 2M data ports, facilitating the test and fault positioning. They have perfect fault self-diagnosing function, provide optical transmission link alarm, 2Mbit/s interface alarm and audible alarm. The equipment uses 1B1H line code, and supports dual-fiber bi-directional transmitting and signal-fiber bi-directional transmitting, several types are available to meet different requirements. The equipment is suitable for point to point optical transmission line, able to provide public and private networks with high-quality, flexible and reliable optical transmission digital line.

The multiplexer is high in integration, strong in reliability, low in power consumption, small in size and overall in function. Even in severe environment, the equipment is still stable. The whole equipment requires no adjustment during installation. It is convenient in use and simple in maintenance.

Model	Opis
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E1 to Fiber (PDH Muliplexer)

EX-PDH-01	1E1 to Fiber20Km 75ohm/120ohmBNC/RJ-45/SC
EX-PDH-02	2E1 to Fiber20Km 75ohm/120ohmBNC/RJ-45/SC
EX-PDH-04	4E1 PDH optical transmitter and receiver Device,BNC/SC
EX-PDH-08	8E1 PDH optical transmitter and receiver Device,BNC/SC
EX-PDH-16	16E1 PDH optical transmitter and receiver Device,BNC/SC
EX-PDH-01WDM	WDM1E1 to Fiber20Km 75ohm/120ohm BNC/RJ-45/SC
EX-PDH-04WDM	WDM4E1 PDH optical transmitter and receiver Device,BNC/SC
EX-PDH-08WDM	WDM8E1 PDH optical transmitter and receiver Device,BNC/SC
EX-PDH-16WDM	WDM16E1 PDH optical transmitter and receiver Device,BNC/SC

E1 to LAN/Ethernet protocol

EX-NB-01	(G.703) 1E1 to Ethernet/Lan Protocol Converter (100M)
EX-NB-02	(G.703) 2 E1 to Ethernet/LanProtocol Converter (100M)
EX-NB-04	(G.703) 4 E1 to Ethernet/Lan Protocol Converter (100M)
EX-NB-08	(G.703) 8 E1 to Ethernet/Lan Protocol Converter (100M)

E1 to V.35 protocol

EX-V-01	(G.703) E1 to V.35 Protocol Converter (2M)
EX-V-02	(G.703) FE1 to V.35Protocol Converter (Nx64M)

Fiber Modem

EX-RS-01	RS-232, 422, 485 to Fiber multi mode
EX-RS-02	RS-232, 422, 485 to Fiber single mode

TDMoIP

EX-TOP series of products are also called IP circuit emulator or adverse gateway. It supports 1~16 groups of E1 service base on TDM be extended to packet exchange network. Via the group network (Ethernet, IP network or MPLS network), the transmission of TDM service is very convenient. At the same time, the system assures the clock of the TDM and the jitter characteristics are superior to the ITU. Firstly, turn 1~16 E1/T1 circuit to IP groups, then transmit it to the Ethernet/IP network via 10/100Base-T (or 100Base-FX) layer.

The EX-TOP equipments turn the TDM service to data packets which are based on the PSN network, the other side of the network executes adverse operation. It can be used on interface conversion, industry custom bandwidth rents, the TDM solution based on PON equipments in public network, Wireless equipments TDM solution, TDM circuit realization on industry Ethernet ring, IP private network consumers accessing improvement and the conversion of the E1 channel in the twisted-pair.

Features:

- 1.Archive the conversion of 1~16 groups of TDM services into packet exchange network;
- 2.Can transport on the complicated IP exchange network and so it can adapt some time delay while the transmission capability is good on the second layer of the Ethernet ;
- 3.Supporting framed (all or part of it) and unframed E1 flow. The separate frames can be configured flexibly;
- 4.QoS management, low processing time delay; assure the quality of TDM service;

Specifications

Power Supply: 220VAC/12VDC/5VDC

Consumption: ≤15W

E1 interface

Channels: 1~16

Comply with: ITU-T G.703, G.706, G.704

Data rate: 2048kbps±50ppm

Code type: AMI/HDB3

Impedence: 75Ω unbalanced & 120Ω balanced

Physical connector: RJ45 for balanced & BNC for unbalanced

Receiver: -2.5 ~ -43dB

Ethernet interface

Comply with: IEEE 802.3, 802.1P, 802.1Q

Rate: 10/100Mbps auto-negotiation

Duplex: Full/Half auto-negotiation

Physical connector: RJ45

ETH interface

Comply with: IEEE 802.3,802.1P,802.1Q

Wavelength: 1310/1550nm

Sensitivity: ≤ -35dBm

Physical connector: RJ45

Working Environment

Temperature: 0°C~50°C

Humidity: 0~95% (non-condensation state)

Model	E1 Channel	ETH Interface	Features
EX-TOP1	1	1*FE Copper (default) or Fiber	Device provides 1*E1(or 1*V35)
EX-TOP2	2	1*FE Copper (default) or Fiber	Device provides 2*E1(or 2*V35)
EX-TOP4	4	1*FE Copper (default) or Fiber	Device provides 4*E1 (The first two channel could be configured as V35)
EX-TOP8	8	1*FE Copper (default) or Fiber	Device provides 8*E1 (The first two channel could be configured as V35)
EX-TOP16	16	1*GE Coppe (default) or Fiber	Device provides 16*E1 (The first two channel could be configured as V35)

Optical LAN cards



Model	Opis
EX-FLC-1002	100M fiber LAN card, Multi mode 2Km
EX-FLC-1040	100M fiber LAN card, Single mode 25Km
EX-FLC-1080	100M fiber LAN card, Single mode 40Km
EX-FLC-1080	100M fiber LAN card, Single mode 80Km
EX-FLC-2002	1000M fiber LAN card, Multi mode 0.5Km
EX-FLC-2025	1000M fiber LAN card, Single mode 25Km
EX-FLC-2040	1000M fiber LAN card, Single mode 40Km
EX-FLC-2080	1000M fiber LAN card, Single mode 80Km
EX-FLC-1025WDM	WDM100M fiber LAN card, Single mode 25Km
EX-FLC-2025WDM	WDM1000M fiber LAN card, Single mode 25Km
EX-PCI-EG01	1000M fiber LAN card, PCI-E with 1*SFP Port
EX-PCI-EG02	1000M fiber LAN card, PCI-E with 2*SFP Ports
EX-PCI-E10G01	10G fiber LAN card, PCI-E with 1*SFP Port
EX-PCI-E10G02	10G fiber LAN card, PCI-E with 2*SFP Ports

Fiber optic patch cords



OM2 multimode

Model	Opis
SC-SC	
CAB-OM2-SC-SC-1M	CAB-OM2-SC-SC-1M Fibre lead 50/125 SC-SC 1.0mtr
CAB-OM2-SC-SC-2M	CAB-OM2-SC-SC-2M Fibre lead 50/125 SC-SC 2.0mtr
CAB-OM2-SC-SC-3M	CAB-OM2-SC-SC-3M Fibre lead 50/125 SC-SC 3.0mtr
CAB-OM2-SC-SC-5M	CAB-OM2-SC-SC-5M Fibre lead 50/125 SC-SC 5.0mtr
CAB-OM2-SC-SC-10M	CAB-OM2-SC-SC-10M Fibre lead 50/125 SC-SC 10.0mtr
SC-LC	
CAB-OM2-SC-LC-1M	CAB-OM2-SC-LC-1M Fibre lead 50/125 SC-LC 1.0mtr
CAB-OM2-SC-LC-2M	CAB-OM2-SC-LC-2M Fibre lead 50/125 SC-LC 2.0mtr
CAB-OM2-SC-LC-3M	CAB-OM2-SC-LC-3M Fibre lead 50/125 SC-LC 3.0mtr
CAB-OM2-SC-LC-5M	CAB-OM2-SC-LC-5M Fibre lead 50/125 SC-LC 5.0mtr
CAB-OM2-SC-LC-10M	CAB-OM2-SC-LC-10M Fibre lead 50/125 SC-LC 10.0mtr
LC-LC	
CAB-OM2-LC-LC-1M	CAB-OM2-LC-LC-1M Fibre lead 50/125 LC-LC 1.0mtr
CAB-OM2-LC-LC-2M	CAB-OM2-LC-LC-2M Fibre lead 50/125 LC-LC 2.0mtr
CAB-OM2-LC-LC-3M	CAB-OM2-LC-LC-3M Fibre lead 50/125 LC-LC 3.0mtr
CAB-OM2-LC-LC-5M	CAB-OM2-LC-LC-5M Fibre lead 50/125 LC-LC 5.0mtr
CAB-OM2-LC-LC-10M	CAB-OM2-LC-LC-10M Fibre lead 50/125 LC-LC 10.0mtr

Available other lengths on request.

OM3 multimode

Model	Opis
SC-SC	
CAB-OM3-SC-SC-1M	CAB-OM3-SC-SC-1M Fibre lead 50/125 SC-SC 1.0mtr
CAB-OM3-SC-SC-2M	CAB-OM3-SC-SC-2M Fibre lead 50/125 SC-SC 2.0mtr
CAB-OM3-SC-SC-3M	CAB-OM3-SC-SC-3M Fibre lead 50/125 SC-SC 3.0mtr
CAB-OM3-SC-SC-5M	CAB-OM3-SC-SC-5M Fibre lead 50/125 SC-SC 5.0mtr
CAB-OM3-SC-SC-10M	CAB-OM3-SC-SC-5M Fibre lead 50/125 SC-SC 10.0mtr
SC-LC	
CAB-OM3-SC-LC-1M	CAB-OM3-SC-LC-1M Fibre lead 50/125 SC-LC 1.0mtr
CAB-OM3-SC-LC-2M	CAB-OM3-SC-LC-2M Fibre lead 50/125 SC-LC 2.0mtr
CAB-OM3-SC-LC-3M	CAB-OM3-SC-LC-3M Fibre lead 50/125 SC-LC 3.0mtr
CAB-OM3-SC-LC-5M	CAB-OM3-SC-LC-2M Fibre lead 50/125 SC-LC 5.0mtr
CAB-OM3-SC-LC-10M	CAB-OM3-SC-LC-10M Fibre lead 50/125 SC-LC 10.0mtr
LC-LC	
CAB-OM3-LC-LC-1M	CAB-OM3-LC-LC-1M Fibre lead 50/125 LC-LC 1.0mtr
CAB-OM3-LC-LC-2M	CAB-OM3-LC-LC-2M Fibre lead 50/125 LC-LC 2.0mtr
CAB-OM3-LC-LC-3M	CAB-OM3-LC-LC-3M Fibre lead 50/125 LC-LC 3.0mtr
CAB-OM3-LC-LC-5M	CAB-OM3-LC-LC-5M Fibre lead 50/125 LC-LC 5.0mtr
CAB-OM3-LC-LC-10M	CAB-OM3-LC-LC-10M Fibre lead 50/125 LC-LC 10.0mtr

Available other lengths on request.

OS1 singlemode

Model	Opis
SC-SC	
CAB-OS1-SC-SC-1M	CAB-OS1-SC-SC-1M Fibre lead 9/125 SC-SC 1.0mtr
CAB-OS1-SC-SC-2M	CAB-OS1-SC-SC-2M Fibre lead 9/125 SC-SC 2.0mtr
CAB-OS1-SC-SC-3M	CAB-OS1-SC-SC-3M Fibre lead 9/125 SC-SC 3.0mtr
CAB-OS1-SC-SC-5M	CAB-OS1-SC-SC-5M Fibre lead 9/125 SC-SC 5.0mtr
CAB-OS1-SC-SC-10M	CAB-OS1-SC-SC-5M Fibre lead 9/125 SC-SC 10.0mtr
SC-LC	
CAB-OS1-SC-LC-1M	CAB-OS1-SC-LC-2M Fibre lead 9/125 SC-LC 1.0mtr
CAB-OS1-SC-LC-2M	CAB-OS1-SC-LC-2M Fibre lead 9/125 SC-LC 2.0mtr
CAB-OS1-SC-LC-3M	CAB-OS1-SC-LC-3M Fibre lead 9/125 SC-LC 3.0mtr
CAB-OS1-SC-LC-5M	CAB-OS1-SC-LC-2M Fibre lead 9/125 SC-LC 5.0mtr
CAB-OS1-SC-LC-10M	CAB-OS1-SC-LC-10M Fibre lead 9/125 SC-LC 10.0mtr
LC-LC	
CAB-OS1-LC-LC-1M	CAB-OS1-LC-LC-2M Fibre lead 9/125 LC-LC 1.0mtr
CAB-OS1-LC-LC-2M	CAB-OS1-LC-LC-2M Fibre lead 9/125 LC-LC 2.0mtr
CAB-OS1-LC-LC-3M	CAB-OS1-LC-LC-2M Fibre lead 9/125 LC-LC 3.0mtr
CAB-OS1-LC-LC-5M	CAB-OS1-LC-LC-5M Fibre lead 9/125 LC-LC 5.0mtr
CAB-OS1-LC-LC-10M	CAB-OS1-LC-LC-2M Fibre lead 9/125 LC-LC 10.0mtr
ST-LC	
CAB-OS1-LC-LC-1M	CAB-OS1-ST-LC-2M Fibre lead 9/125 ST-LC 1.0mtr
CAB-OS1-LC-LC-2M	CAB-OS1-ST-LC-2M Fibre lead 9/125 ST-LC 2.0mtr
CAB-OS1-LC-LC-3M	CAB-OS1-ST-LC-2M Fibre lead 9/125 ST-LC 3.0mtr
CAB-OS1-LC-LC-5M	CAB-OS1-ST-LC-5M Fibre lead 9/125 ST-LC 5.0mtr
CAB-OS1-LC-LC-10M	CAB-OS1-ST-LC-2M Fibre lead 9/125 ST-LC 10.0mtr
ST-SC	
CAB-OS1-LC-LC-1M	CAB-OS1-ST-SC-2M Fibre lead 9/125 ST-SC 1.0mtr
CAB-OS1-LC-LC-2M	CAB-OS1-ST-SC-2M Fibre lead 9/125 ST-SC 2.0mtr
CAB-OS1-LC-LC-3M	CAB-OS1-ST-SC-2M Fibre lead 9/125 ST-SC 3.0mtr
CAB-OS1-LC-LC-5M	CAB-OS1-ST-SC-5M Fibre lead 9/125 ST-SC 5.0mtr
CAB-OS1-LC-LC-10M	CAB-OS1-ST-SC-2M Fibre lead 9/125 ST-SC 10.0mtr

Available other lengths on request.

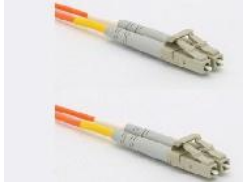
Other patch cords

Available on request.

		
LC Patch Cord	SC Patch Cord	ST Patch Cord
		
FC Patch Cord	MTRJ Patch Cord	E2000 Patch Cord
		
D4 Patch Cord	MU Patch Cord	FDDI Patch Cord
		
Fanout Patch Cord	ESCON Patch Cord	90deg SC Patch Cord

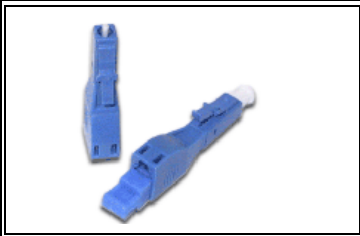





DX-MTRJ Patch Cord



DX-LC-LC Patch Cord

Attenuators

 A blue LC fiber optic attenuator, consisting of a small rectangular component and a longer, angled component with a white fiber optic connector.	 A beige SC fiber optic attenuator, consisting of a rectangular component with a locking mechanism and a component with a standard SC connector.
LC Attenuator	SC Attenuator
 A silver FC fiber optic attenuator, consisting of a cylindrical component with a threaded section and a component with a standard FC connector.	 A silver ST fiber optic attenuator, consisting of a cylindrical component with a threaded section and a component with a standard ST connector.
FC Attenuator	ST Attenuator

Adapters

		
<p>LC Adaptor</p>	<p>SC Adaptor</p>	<p>ST Adaptor</p>
		
<p>FC Adaptor</p>	<p>MTRJ Adaptor</p>	<p>E2000 Adaptor</p>
		
<p>FC M-LC F Adaptor</p>	<p>MU Adaptor</p>	<p>LC M-FC F Adaptor</p>
		
<p>LC M-SC F Adaptor</p>	<p>LC M-ST F Adaptor</p>	<p>MPO Adaptor</p>
		
<p>SC-LC Adaptor</p>	<p>SC-LC SM Adaptor</p>	

Optical connectors

		
<p>LC Connector</p>	<p>SC Connector</p>	<p>ST Connector</p>
		
<p>FC Connector</p>	<p>D4 Connector</p>	<p>E2000 Connector</p>
		
<p>DIN Connector</p>	<p>MU Connector</p>	

Opticon substitutions of other hardware vendors

CISCO, HP, ALCATEL, NORTEL, 3COM, JUNIPER, FOUNDRY, AVAYA, ENETERASYS, RIVERSTONE, ALLIED TELESYN, D-LINK, EXTREME, LINKSYS

Cisco		
CISCO Part Number	Opticon model	Description
WS-G5483	GBIC-T	1000BASE-T, Copper, GBIC, 100m
WS-G5484	GBIC-SX-M2002	1000BASE-SX, GBIC, MMF 850nm, 550m
WS-G5486	GBIC-LH-S2010	1000BASE-LX/LH, GBIC, SMF 1310nm, 10km
WS-G5487	GBIC-ZX-S2080	1000BASE-ZX GBIC, SMF 1550nm, 70km
CWDM-GBIC-xxx-70	SFP-CWDM-2080-xxxx	CWDM-GBIC 1470nm-1610nm, -24dB, 70km
CWDM-GBIC-XXX-100	SFP-CWDM-2120-xxxx	CWDM-GBIC 1470nm-1610nm, -32dB, 100km
GLC-T	SFP-T-A	1000BASE-T SFP RJ45 Connector 100m
	SFP-T-B	10/100/1000BASE-T SFP RJ45 Connector 100m
GLC-SX-MM	SFP-SX-M2002	1000BASE-SX SFP MMF 850nm 550m
GLC-LH-SM	SFP-LH-S2010	1000BASE-LX/LH SFP SMF 1310nm 10km
GLC-ZX-SM	SFP-ZX-S2080	1000BASE-ZX SFP SMF 1550nm 70km
SFP-GE-S	SFP-SX-M2002D	1000Base SFP 850nm MMF 550m with DDM
SFP-GE-L	SFP-LH-S2010D	1000Base SFP 1310nm SMF 10km with DDM
SFP-GE-Z	SFP-ZX-S2080D	1000Base SFP 1550nm SMF 70km with DDM
CWDM-SFP-XXX-70	SFP-CWDM-2080-xxxx	CWDM-SFP 1270nm-1450nm 70km -24dBm
CWDM-SFP-XXX-70	SFP-CWDM-2080-xxxx	CWDM-SFP 1470nm-1610nm 70km -24dBm
CWDM-SFP-XXX-100	SFP-CWDM-2120-xxxx	CWDM-SFP 1470nm-1610nm 30dB, 100km, -32dBm
CWDM-SFP-2.5G-XXX-40	SFP-CWDM-3040-xxxx	CWDM-SFP 1270nm-1450nm 40km, -18dBm
CWDM-SFP-2.5G-XXX-40	SFP-CWDM-3040-xxxx	CWDM-SFP 1450nm-1610nm 40km, -18dBm
CWDM-SFP-2.5G-XXX-80	SFP-CWDM-3080-xxxx	CWDM-SFP 1270nm-1450nm80km, -28dBm
CWDM-SFP-2.5G-XXX-	SFP-CWDM-3080-xxxx	CWDM-SFP 1470nm-1610nm80km, -28dBm

80		
GLC-FE-100FX	SFP-FE-M1002	100BASE-FX SFP 1310nm MMF 2km
GLC-FE-100LX	SFP-FE-S1010	100BASE-LX SFP 1310nm SMF 15km
GLC-FE-100EX	SFP-FE-S1040	100BASE-EX SFP 1310nm SMF 40km
GLC-FE-100ZX	SFP-FE-S1080	100BASE-ZX SFP 1550nm SMF 80km
SFP-OC3-MM	SFP-FE-M1002D	155M,1310nm, 2KM,SMDDM
SFP-OC3-SR	SFP-FE-S1002D	155M,1310nm, 2KM,SM
SFP-OC3-IR1	SFP-FE-S1010D	155M,1310nm,15KM,SM
SFP-OC3-LR1	SFP-FE-S1040D	155M,1310nm,40KM,SM
SFP-OC3-LR2	SFP-FE-S1080D	155M,1550nm,80KM,SM
SFP-OC12-MM	SFP-SX-M6002D	622M,1310nm, 2km, SM DDM
SFP-OC12-SR	SFP-LH-S6002D	622M,1310nm, 2km, SM
SFP-OC12-IR1	SFP-LH-S6010D	622M,1310nm,15KM,SM
SFP-OC12-LR1	SFP-LH-S6040D	622M,1310nm,40KM,SM
SFP-OC12-LR2	SFP-LH-S6080D	622M,1550nm,70KM,SM
SFP-OC48-SR	SFP-SX-M3002D	2.5G,1310nm,2KM,SM
SFP-OC48-IR1	SFP-LH-S3010D	2.5G,1310nm,15KM,SM
SFP-OC48-LR1	SFP-LH-S3040D	2.5G,1310nm,40KM,SM
SFP-OC48-LR2	SFP-LH-S3080D	2.5G,1550nm,80KM,SM
GLC-BX-D	SFP-WDM-2010B	1000base SFP-BIDI 1490Tx /1310 Rx 15km
GLC-BX-U	SFP-WDM-2010A	1000base SFP-BIDI 1310Tx /1490 Rx15km
GLC-FE-100BX-D	SFP-WDM-1010B	100base SFP-BIDI 1550TX/1310RX 20km
GLC-FE-100BX-U	SFP-WDM-1010A	100base SFP-BIDI 1310TX/1550RX 20km
XENPAK-10GB-SR	XENPAK-10G-SR03	10GBASE-SR XENPAK 850nm MMF 300m
XENPAK-10GB-LR	XENPAK-10G-LR10	10GBASE-LR XENPAK 1310nm SMF 10km
XENPAK-10GB-ER	XENPAK-10G-ER40	10GBASE-ER XENPAK 1550nm SMF 40km
XENPAK-10GB-ZR	XENPAK-10G-ZR80	10GBASE-ZR XENPAK 1550nm SMF 80km
XENPAK-10GB-LRM	XENPAK-10G-FDDI	FDDI XENPAK Module for MMF and SMF
X2-10GB-SR	X2-10G-SR03	10GBASE-SR X2 850nm MMF 300m
X2-10GB-LR	X2-10G-LR10	10GBASE-LR X2 1310nm SMF 10km
X2-10GB-ER	X2-10G-ER40	10GBASE-ER X2 1550nm SMF 40km

X2-10GB-ZR	X2-10G-ZR80	10GBASE-ZR X2 1550nm SMF 80KM
X2-10GB-LRM	X2-10G-FDDI	FDDI X2 Module for MMF and SMF
XFP-10G-MM-SR	XFP-10G-SR03	10GBASE-SR XFP 850nm MMF 300m
XFP-10GLR-OC192SR	XFP-10G-LR10	10GBASE-LR XFP 1310nm SMF 10km
XFP-10GER-OC192IR	XFP-10G-ER40	10GBASE-ERXFP 1550nm SMF 40km
XFP-10GZR-OC192LR	XFP-10G-ZR80	10GBASE-ERXFP 1550nm SMF 80km
SFP-10G-SR	SFP+10G-SR03	10GBASE 850nm Vesel 300m LC
SFP-10G-LR	SFP+10G-LR10	10GBASE 1310nm DFB 10km LC
SFP-10G-ER	SFP+10G-ER40	10GBASE 1550nm DFB 40km LC
SFP-10G-ZR	SFP+10G-ZR80	10GBASE 1550nm DFB 80km LC
SFP-10G-LRM	SFP+10G-FDDI	FDDI SFP+ Module for MMF and SMF
DWDM-SFP-6142	SFP-DWDM-6142	1000BASE-DWDM 1561.42 nm SFP (100-GHz ITU grid)
DWDM-SFP-6061=	SFP-DWDM-6061	1000BASE-DWDM 1560.61 nm SFP (100-GHz ITU grid)
DWDM-SFP-5979=	SFP-DWDM-5979	1000BASE-DWDM 1559.79 nm SFP (100-GHz ITU grid)
DWDM-SFP-5898=	SFP-DWDM-5898	1000BASE-DWDM 1558.98 nm SFP (100-GHz ITU grid)
DWDM-SFP-5817=	SFP-DWDM-5817	1000BASE-DWDM 1558.17 nm SFP (100-GHz ITU grid)
DWDM-SFP-5736=	SFP-DWDM-5736	1000BASE-DWDM 1557.36 nm SFP (100-GHz ITU grid)
DWDM-SFP-5655=	SFP-DWDM-5655	1000BASE-DWDM 1556.55 nm SFP (100-GHz ITU grid)
DWDM-SFP-5575=	SFP-DWDM-5575	1000BASE-DWDM 1555.75 nm SFP (100-GHz ITU grid)
DWDM-SFP-5494=	SFP-DWDM-5494	1000BASE-DWDM 1554.94 nm SFP (100-GHz ITU grid)
DWDM-SFP-5413=	SFP-DWDM-5413	1000BASE-DWDM 1554.13 nm SFP (100-GHz ITU grid)
DWDM-SFP-5332=	SFP-DWDM-5332	1000BASE-DWDM 1553.33 nm SFP (100-GHz ITU grid)

DWDM-SFP-5252=	SFP-DWDM-5252	1000BASE-DWDM 1552.52 nm SFP (100-GHz ITU grid)
DWDM-SFP-5172=	SFP-DWDM-5172	1000BASE-DWDM 1551.72 nm SFP (100-GHz ITU grid)
DWDM-SFP-5092=	SFP-DWDM-5092	1000BASE-DWDM 1550.92 nm SFP (100-GHz ITU grid)
DWDM-SFP-5012=	SFP-DWDM-5012	1000BASE-DWDM 1550.12 nm SFP (100-GHz ITU grid)
DWDM-SFP-4931=	SFP-DWDM-4931	1000BASE-DWDM 1549.32 nm SFP (100-GHz ITU grid)
DWDM-SFP-4851=	SFP-DWDM-4851	1000BASE-DWDM 1548.51 nm SFP (100-GHz ITU grid)
DWDM-SFP-4772=	SFP-DWDM-4772	1000BASE-DWDM 1547.72 nm SFP (100-GHz ITU grid)
DWDM-SFP-4692=	SFP-DWDM-4692	1000BASE-DWDM 1546.92 nm SFP (100-GHz ITU grid)
DWDM-SFP-4612=	SFP-DWDM-4612	1000BASE-DWDM 1546.12 nm SFP (100-GHz ITU grid)
DWDM-SFP-4532=	SFP-DWDM-4532	1000BASE-DWDM 1545.32 nm SFP (100-GHz ITU grid)
DWDM-SFP-4453=	SFP-DWDM-4453	1000BASE-DWDM 1544.53 nm SFP (100-GHz ITU grid)
DWDM-SFP-4373=	SFP-DWDM-4373	1000BASE-DWDM 1543.73 nm SFP (100-GHz ITU grid)
DWDM-SFP-4294=	SFP-DWDM-4294	1000BASE-DWDM 1542.94 nm SFP (100-GHz ITU grid)
DWDM-SFP-4214=	SFP-DWDM-4214	1000BASE-DWDM 1542.14 nm SFP (100-GHz ITU grid)
DWDM-SFP-4134=	SFP-DWDM-4134	1000BASE-DWDM 1541.35 nm SFP (100-GHz ITU grid)
DWDM-SFP-4056=	SFP-DWDM-4056	1000BASE-DWDM 1540.56 nm SFP (100-GHz ITU grid)
DWDM-SFP-3977=	SFP-DWDM-3977	1000BASE-DWDM 1539.77 nm SFP (100-GHz ITU grid)
DWDM-SFP-3898=	SFP-DWDM-3898	1000BASE-DWDM 1538.98 nm SFP (100-GHz ITU grid)
DWDM-SFP-3819=	SFP-DWDM-3819	1000BASE-DWDM 1538.19 nm SFP (100-GHz ITU grid)

DWDM-SFP-3739=	SFP-DWDM-3739	1000BASE-DWDM 1537.40 nm SFP (100-GHz ITU grid)
DWDM-SFP-3661=	SFP-DWDM-3661	1000BASE-DWDM 1536.61 nm SFP (100-GHz ITU grid)
DWDM-SFP-3582=	SFP-DWDM-3582	1000BASE-DWDM 1535.82 nm SFP (100-GHz ITU grid)
DWDM-SFP-3504=	SFP-DWDM-3504	1000BASE-DWDM 1535.04 nm SFP (100-GHz ITU grid)
DWDM-SFP-3425=	SFP-DWDM-3425	1000BASE-DWDM 1534.25 nm SFP (100-GHz ITU grid)
DWDM-SFP-3346=	SFP-DWDM-3346	1000BASE-DWDM 1533.47 nm SFP (100-GHz ITU grid)
DWDM-SFP-3268=	SFP-DWDM-3268	1000BASE-DWDM 1532.68 nm SFP (100-GHz ITU grid)
DWDM-SFP-3190=	SFP-DWDM-3190	1000BASE-DWDM 1531.90 nm SFP (100-GHz ITU grid)
DWDM-SFP-3112=	SFP-DWDM-3112	1000BASE-DWDM 1531.12 nm SFP (100-GHz ITU grid)
DWDM-SFP-3033=	SFP-DWDM-3033	1000BASE-DWDM 1530.33 nm SFP (100-GHz ITU grid)
HP		
HP Part number	Opticon model	Opis
J8177B	SFP-T	1000BASE-T SFP, 100m
J4858A/B	SFP-SX-M2002	HP ProCurve Gigabit-SX-LC mini-GBIC, 550m
J4859A/B	SFP-LH-S2010	HP ProCurve Gigabit-LX-LC mini-GBIC, 10km
J4860A/B	SFP-ZX-S2080	HP ProCurve Gigabit-LH-LC mini-GBIC, 70km
ALCATEL		
ALCATEL	Opticon model	Opis
GBIC-C	GBIC-T	1000BASE-T GBIC
GBIC-SX	GBIC-SX-M2002	1000BASE-SX 850nm 550m GBIC
GBIC-LX	GBIC-LH-S2010	1000BASE-LX 1310nm 10km GBIC
GBIC-LH-70	GBIC-ZX-S2080	1000BASE-ZX 1550nm 70km GBIC

SFP-GIG-T	SFP-T	1000BASE-T SFP
SFP-GIG-SX	SFP-SX-M2002	1000BASE-SX 850nm SFP
SFP-GIG-LX	SFP-LH-S2010	1000BASE-LX 1310nm SFP
SFP-GIG-LH70	SFP-ZX-S2080	1000BASE-ZX 1550nmSFP
SFP-100-LC-MM	SFP-SX-M1002	100BASE-SX SFP 1310NM 2KM
SFP-100-LC-SM15	SFP-LH-S1020	100BASE-LX SFP 1310NM 15KM
SFP-100-LC-SM40	SFP-ZX-S2080	100BASE-ZXSFP 1310NM 40KM
Nortel		
NORTEL	Opticon model	Opis
AA1419042	GBIC-T	1000BASE-T GBIC, RJ45 Connector, 100m
AA1419001	GBIC-SX-M2002	1000BASE-SX GBIC, MMF, 850nm, 550m
AA1419002	GBIC-LH-S2010	1000BASE-LX GBIC, SMF, 1310nm, 10km
AA1419003	GBIC-LH-S2040	1000BASE-XD GBIC, SMF, 1550nm, 50km
AA1419004	GBIC-ZX-S2080	1000BASE-ZX GBIC, SMF, 1550nm, 70km
AA1419017~AA141902	GBIC-CWDM-2080-xxxx	CWDM-GBIC 1470nm-1610nm 23dB 80 km
AA1419043	SFP-T	1000BASE-T SFP, RJ45 Connector, 100m
AA1419013	SFP-SX-M2002	1000BASE-SX SFP, MMF, 850nm, 550m
AA1419015	SFP-LH-S2010	1000BASE-LX SFP, SMF, 1310nm, 10km
AA1419025~AA1419032	SFP-LH-S2040	CWDM-SFP 1470nm-1610nm 40km
AA1419033~AA1419040	SFP-ZX-S2080	CWDM-SFP 1470nm-1610nm 80km
3Com		
3COM	Opticon model	Opis
3CGBIC93A	GBIC-T	1000Base-T GBIC Copper, RJ-45 connector, 100m
3CGBIC91	GBIC-SX-M2002	1000Base-SX GBIC, MMF, 850nm, 550m
3CGBIC92	GBIC-LH-S2010	1000Base-LX GBIC, SMF, 1310nm, 10km
3CGBIC97	GBIC-ZX-S2080	1000BASE-ZX GBIC, SMF, 1550nm, 70km
	GBIC-ZX-S2120	1000BASE-EZX GBIC, SMF 1550nm, 120km

3CSFP93	SFP-T	1000Base-T SFP Copper, RJ-45 connector, 100m
3CSFP91	SFP-SX-M2002	1000Base-SX SFP, MMF, 850nm, 550m
3CSFP92	SFP-LH-S2010	1000Base-LX SFP, SMF, 1310nm, 10km
3CSFP97	SFP-ZX-S2080	1000BASE-ZX SFP, SMF, 1550nm, 70km
3CSFP81	SFP-SX-M1002	FE SFP 1310nm MMF 2km
3CSFP82	SFP-LH-S1020	FE SFP 1310nm SMF 15km
3CXENPAK94	XENPAK-10G-SR03	XENPAK MM 850NM
3CXENPAK92	XENPAK-10G-LR10	XENPAK SM 1310NM, 10KM
JUNIPER		
JUNIPER	Opticon model	Opis
JX-SFP-1GE-T	SFP-T	1000BASE-T SFP
JX-SFP-1GE-SX	SFP-SX-M2002	1000BASE-SX SFP Transceiver 850nm,550m
JX-SFP-1GE-LX	SFP-LH-S2010	1000BASE-LX SFP 10km 1310nm MM or SM
JX-SFP-1GE-LH	SFP-ZX-S2080	1000Base-ZX SFP Wavelength 1550nm 80km
XENPAK-1XGE-SR	XENPAK-10G-SR03	XENPAK 850NM 300M
XENPAK-1XGE-LR	XENPAK-10G-LR10	XENPAK 1310NM 10KM
XENPAK-1XGE-ER	XENPAK-10G-ER40	XENPAK 1550NM 40KM
Foundry		
FOUNDRY	Opticon model	Opis
E1G-TX	GBIC-T	1000BASE-TX GBIC, RJ45 connector, 100m
E1G-SX	GBIC-SX-M2002	1000BASE-SX GBIC, MMF, 850nm, 550m
E1G-LX	GBIC-LH-S2010	1000BASE-LX GBIC, SMF, 1310nm, 10km
E1G-LHA	GBIC-ZX-S2080	1000BASE-LHA GBIC, SMF, 1550nm, 70km
E1G-LHB	GBIC-ZX-S2120	1000BASE-LHB GBIC, SMF, 1550nm, 120km
E1MG-TX	SFP-T	1000BASE-TX SFP, RJ45 connector, 100m

E1MG-SX	SFP-SX-M2002	1000BASE-SX SFP, MMF, 850nm, 550m
E1MG-LX	SFP-LH-S2010	1000BASE-LX SFP, SMF, 1310nm, 10km
E1MG-LHA	SFP-ZX-S2080	1000BASE-LHA SFP, SMF, 1550nm, 70km
E1MG-LHB	SFP-ZX-S2120	1000BASE-LHB SFP, SMF, LC connector, 120km
E1MG-CWDM80-XXXX	SFP-CWDM-2080-xxxx	SFP-CWDM 1470nm-1610nm (in 20nm intervals) SMF, 23dB, 80km
10G-XEPK-SR	XENPAK-10G-SR03	XENPAK 850NM 300M
10G-XEPK-LR	XENPAK-10G-LR10	XENPAK 1310NM 10KM
10G-XEPK-ER	XENPAK-10G-ER40	XENPAK 1550NM 40KM
Avaya		
AVAYA	Opticon model	Opis
108659228	GBIC-SX-M2002	GBIC SX Transceiver, Multimode Fiber 1000Base-SX , 550m
108659210	GBIC-LH-S2010	GBIC LX Transceiver, Single-mode Fiber 1000Base-LX, 10km
700013147	GBIC-ZX-S2080	GBIC ELX Transceiver, Fiber LongRange GBIC, 80km
700283872	SFP-T	1000Base-TX SFP , RJ45 connector, 100m
108873241	SFP-SX-M2002	SFP GBIC SX Transceiver, Multimode Fiber 1000BASE-SX , 550m
108873258	SFP-LH-S2010	SFP GBIC LX Transceiver, Single-mode Fiber 1000BASE-LX, 10km
700260185	SFP-ZX-S2080	SFP GBIC ELX Transceiver, Single-mode Fiber 1000BASE-ELX, 70km
Enterasys		
ENTERASYS	Opticon model	Opis
GPIM-02	GBIC-T	Gigabit ethernet Port Interface Module (GPIM), 1000BaseTX, 100m

GPIM-01	GBIC-SX-M2002	Gigabit ethernet Port Interface Module (GPIM), 1000BaseSX, 550m
GPIM-09	GBIC-LH-S2010	Gigabit ethernet Port Interface Module (GPIM), 1000BaseLX, 10km
GPIM-08	GBIC-ZX-S2080	Long Haul GPIM (70Km)
MGBIC-02	SFP-T	Mini-GBIC with 1000Base-TX port via RJ45 connector, 100m
MGBIC-LC01	SFP-SX-M2002	Mini-GBIC with 1000Base-SX port via LC connector, 550m
MGBIC-LC03	SFP-SX-M2002	1000BASE-SX+ SFP MMX 1310nm MMF 2Km
MGBIC-LC09	SFP-LH-S2010	1000Base-LX Mini GBIC w/LC connector, 10km
MGBIC-08	SFP-ZX-S2080	Mini-GBIC with 1000Base-LX/LH (long-haul 70 km) port via LC connector
RIVERSTONE		
RIVERSTONE	Opticon model	Opis
GBIC-12	GBIC-T	GbE GBIC, 1000BaseT; RJ45 connector , 100m
GBIC-11	GBIC-SX-M2002	GbE GBIC, MMF, 850nm, Typical Reach: 550 meters
GBIC-19	GBIC-LH-S2010	GbE GBIC, SMF, 1310nm, Typical Reach: 10 km
GBIC-18	GBIC-ZX-S2080	GbE GBIC, SMF, 1550nm, Typical Reach: 80 km
SFPGE-12	SFP-T	Gigabit Ethernet SFP, 1000BaseT; RJ45 connector
SFPGE-11	SFP-SX-M2002	1000BaseSX Single Gigabit Ethernet Small Form-factor Pluggable (SFP) 550m
SFPGE-19	SFP-LH-S2010	1000BaseLX Single Gigabit Ethernet SFP, 10km

SFPGE-18	SFP-ZX-S2080	1000Base-LH (70 km typical reach over SMF) Gigabit Ethernet SFP
Allied Telesyn		
ALLIED TELESYN	Opticon model	Opis
AT-G8T	GBIC-T	1000BASE-TX GBIC, RJ45 connector, 100m
AT-G8SX	GBIC-SX-M2002	1000BASE-SX GBIC, MMF, 850nm, 550m
AT-G8LX10	GBIC-LH-S2010	1000BASE-LX GBIC, SMF, 1310nm, 10km
AT-G8LX25	GBIC-LH-S2020	1000BASE-ELX GBIC, SMF, 1310nm, 25km
AT-G8LX40	GBIC-LH-S2040	1000BASE-ELX GBIC, SMF, 1550nm, 40km
AT-G8LX70	GBIC-ZX-S2080	1000BASE-ZX GBIC, SMF, 1550nm, 70km
AT-G8ZX70-wwww	GBIC-CWDM-2080-xxxx	1000BASE-ZX GBIC-CWDM, SMF, 70km "wwww" means 1470nm-1610nm (in 20nm intervals)
AT-SP8T	SFP-T	1000BASE-TX SFP, RJ-45 connector,100m
AT-SPSX	SFP-SX-M2002	1000BASE-SX SFP, MMF, 850nm, 550m
AT-SP8LX10	SFP-LH-S2010	1000BASE-LX SFP, SMF, 1310nm, 10km
AT-SP8LX40	SFP-LH-S2040	1000BASE-ELX SFP, SMF, 1310nm, 40km
AT-SP8LX40/1550	SFP-LH-S2040	1000BASE-ELX SFP, SMF, 1550nm, 40km
AT-SPZX80	SFP-ZX-S2080	1000BASE-ZX SFP, SMF, 1550nm, 80km
AT-SPZX80-wwww	SFP-CWDM-2080-xxxx	SFP-CWDM, SMF, 80km, "wwww" means 1470nm-1610nm (in 20nm intervals)
D-Link		
D-LINK	Opticon model	Opis
DGS-711	GBIC-T	1000BASE-T GBIC Gigabit Ethernet Module 3.3V 100m
DGS-701	GBIC-SX-M1002	1000BASE-SX GBIC Module For Multimode Fiber, 550m
DGS-702	GBIC-LH-S2010	1000BASE-LX GBIC Module For Single or Multimode Fiber 10km
DGS-706	GBIC-LH-S2030	1000BASE-LX GBIC Gigabit Ethernet Module 5.0V, 30km

DGS-708	GBIC-ZX-S2080	1000BASE-LX GBIC Gigabit Ethernet Module 3.3/5.0V 80Km
DEM-311GT	SFP-SX-M2002	1000BASE-SX Mini Gigabit Interface Converter, 550m
DEM-310GT	SFP-LH-S2010	1000BASE-LX Mini GBIC For Single or Multimode Fiber, 10km
DEM-314GT	SFP-LH-S2040	1000BASE-LX Mini Gigabit Interface Converter, 50km
DEM-315GT	SFP-ZX-S2080	1000BASE-LX Mini Gigabit Interface Converter, 80km
DEM-330T	SFP-WDM-2010B	1000base SFP-BIDI 1550Tx /1310 Rx 15km
DEM-330R	SFP-WDM-2010A	1000base SFP-BIDI 1310Tx /1550 Rx 15km
DEM-331T	SFP-WDM-2040B	1000base SFP-BIDI 1550Tx /1310 Rx 40km
DEM-331R	SFP-WDM-2040A	1000base SFP-BIDI 1310Tx /1550 Rx 40km
Extreme		
EXTREME	Opticon model	Opis
10018	GBIC-T	1000BASE-T GBIC-based transceiver, RJ-45 connector, 100M.
10011	GBIC-SX-M2002	1000BASE-SX GBIC-based transceiver, SC connector, for use with multi-mode fiber with distances up to 550 meters.
10013	GBIC-LH-S2010	1000BASE-LX GBIC-based transceiver for distances up to 10km; SC connector, for use with single mode fiber.
10017	GBIC-ZX-2080	1000BASE-ZX GBIC based transceiver, extra long distance 70km single mode fiber.
10051	SFP-SX-M2002	1-port, Mini-GBIC, SFP, 1000BASE-SX, LC connector, 550m
10052	SFP-LH-S2010	1-port, Mini-GBIC, SFP, 1000BASE-LX, LC connector, 10km
10053	SFP-ZX-S2080	1-port, Mini-GBIC, SFP, Extra long distance SMF 70 Km/21 dB budget, LC

10110	XENPAK-10G-SR03	10 Gigabit Ethernet XENPAK Transceiver, SR, 850 nm, MMF, 300 m range
10111	XENPAK-10G-LR10	10 Gigabit Ethernet XENPAK Transceiver, LR, 1310 nm, SMF, 10 Km range
10112	XENPAK-10G-ER40	10 Gigabit Ethernet XENPAK Transceiver, ER, 1550 nm, SMF, 40 Km range
LINKSYS		
LINKSYS	Opticon model	Opis
MGBT1	SFP-T	1000BASE-T SFP
MGBSX1	SFP-SX-M2002	1000BASE-SX 850nm 550m SFP
MGBLH1	SFP-LH-S2010	1000BASE-LX 1310nm 10km SFP

opticon