

ETU-LINK

OUR CONTINUAL PURSUIT IS TO WIN YOUR MOVING



ETU-LINK TECHNOLOGY CO., LTD.



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2024





Do you know
ETU LINK?



Do you know our team?

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Baichuanda Industrial Park, Longguan Expressway,
Longhua New District, Shenzhen



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District, Shenzhen

Who We Are?

ETU-Link Technology Co., LTD(ETU-LINK) focus on the development, application and promotion of new technologies and new products. We currently have a full range of optical modules, high-speed AOC/DAC cable production lines and optical network supporting products, which are widely used in Ethernet, Infiniband, FTTH, SDH, SONET, data center and other communication fields.

Advanced technology

Deeply plowing the optical communication industry for more than ten years, and obtaining the certification of 《Specializing in New SMEs》and 《National High-tech Enterprises》, and possessing more than 50 patents

Efficient production

The advanced production line ensures efficient and standardized production, with a timely delivery rate of more than 99% and stable production capacity. A senior technical team with an average of more than 15 years of experience in the industry provides escort.

Excellent quality

Through ISO9001 quality system certification and CE, ROHS, FCC, SGS, TUV, CB and other international certifications, the product quality has reached the first-class level in the industry.

Globally recognized

The products are sold to more than 100 countries all over the world, and the same customer repurchased up to 568 times, winning extensive trust.

Innovation leading

Adhering to customer demand-oriented, quality as life, innovation as power, we are committed to become a leader in the field of global optical communications. We look forward to establishing long-term and stable cooperation with more customers and jointly promoting the development and application of optical communication technology.



Let's see the factory



▲ Production Department 1



Production Department 2 ▲

Do you want to see Where we go?



Contents

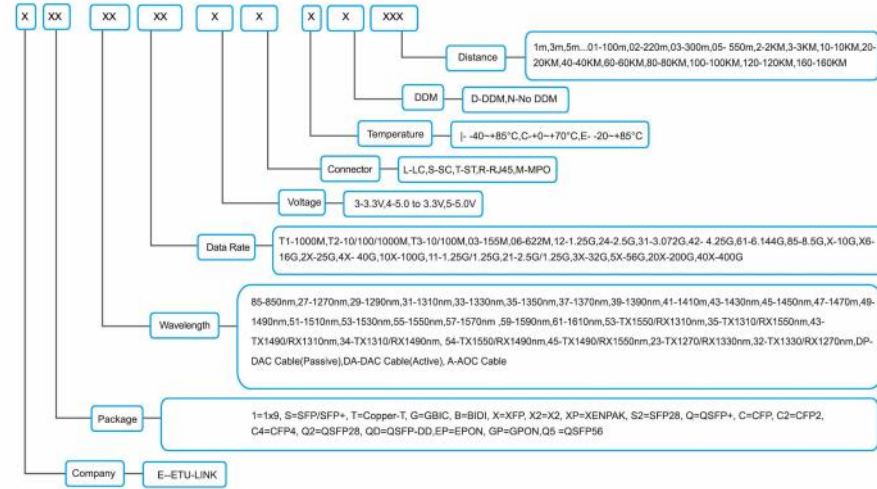
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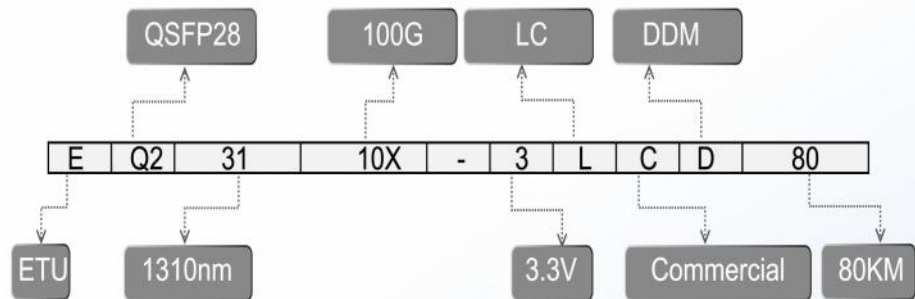
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 - 10/100M Media Converter
 - 1000M Media Converter
 - 10/100/1000M Media Converter

The Naming Rule

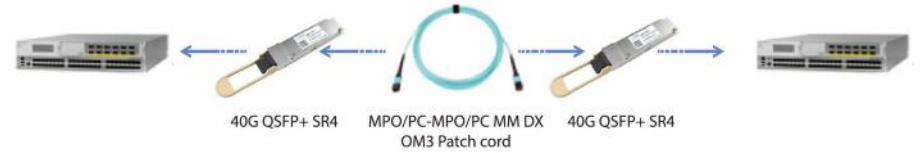
ETU-LINK Product Model Naming Rule



For Example: EQ23110X-3LCD80



The Installation Guide



Notes: If the module is not matched with th patch cord properly, the product will not working.

Products Processing

The Flow of Laser Production

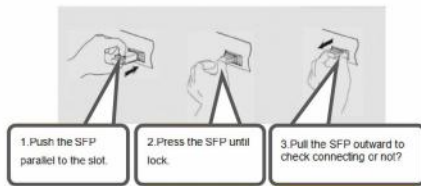
 01 Metal Device Cleaning	 02 Assembling	 03 Laser Spot Welding
 04 Emission Coupling	 05 End Face Cleaning	 06 Initial Launch Testing
 07 Power Control	 08 Reception Coupling	 09 Viscose Baking
 10 Warm Evidence-based	 11 Spectral Testing	 12 Packaging

The Production Processing of SFP

 01 Firmware program download	 02 weld assembly TOSA- ROSA	 03 PCBA cleaning & inspection	 04 Serial number pairing
 05 Assemble	 06 Module temperature cycle	 07 Module debugging	 08 Power-on aging
 09 Check and clean module optical end face	 10 Low temperature test	 11 High temperature test	 12 Normal temperature test
 13 Check and clean module optical end face	 14 Write the code and label	 15 EEPROM CHECK	 16 Module appearance cleaning & inspection
 17 OQC sampling	 18 Package process		

Mounting and Dismounting of Optical Modules

01 Mounting



02 Dismounting



Fault Analysis and Solution

Phenomenon	Preliminary Analysis	Investigation	Solution
Indicator light no lighting	Compatibility	<ul style="list-style-type: none"> ※Checking the Tx port by optical power meter if has Tx power. ※ Input device command to check if the DDM can be read. 	<ul style="list-style-type: none"> ※There is no optical power output and the DDM information invalid, check with the vendor if write the right code for device.
Tx power normally working, no communication	Optical path break down	<ul style="list-style-type: none"> ※ Check the fiber connected correctly or not? ※ Check whether the optical fiber section/ SFP port is polluted or not? Polluted fiber section/ SFP 	<ul style="list-style-type: none"> ※ Correct the right connection way. ※ Clean the patch cord with dust-free paper or use the cleaner to clean the SFP port.
Link down	Matching faulty	<ul style="list-style-type: none"> ※ Check the optical module if mach the switch port, such as data rata, distance, and singe fiber SFP/ dual fiber SFP. 	<ul style="list-style-type: none"> ※ Replace the suitable optical module.

Product Comparison

Single Fiber VS Dual Fiber Media Converter

Advantage: Effectively control the fiber cost.



Single Fiber Media Converter A + SC/UPC-SC/UPC SM SX Patch Cord + Single Fiber Media Converter B

Advantage: Dual core fiber, it will be no worried when one of them meet problem.



Dual Fiber Media Converter + SC/UPC-SC/UPC SM DX Patch Cord + Dual Fiber Media Converter



Single Mode VS Multimode SFP



Tips:
 The fiber need to match the corresponding SFP, or else it will be no working.
 Single mode SFP matches with single mode patch cord;
 Multi mode SFP matches with multi mode patch cord.

100G QSFP28+ Modules VS DAC/AOC Cable



① DAC/AOC installation is more convenient than QSFP+ modules with patch cord.
 ② Compare with QSFP modules, DAC/AOC occupy absolute cost advantage.

Package

Individual SFP



Individual QSFP



4PCS/Tray



10PCS/Tray



Product List 400G Transceiver



Features

- ▶ Compliant with IEEE802.3bs standard: 400GAUI-8 electrical interface
- ▶ Compliant with IEEE 802.3bs standard:
- ▶ Case operating temperature 0°C to 70°C
- ▶ RoHS compliant
- ▶ Class 1 Laser

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EQP112-400-SR4	400G	QSFP112 SR4	850nm	100M	-4.6-4	0-70	-4.6	MPO	VCSEL+PIN
EQD400-SR4	400G	QSFP SR4	850nm	100M	-4.6-4	0-70	-4.6	MPO	VCSEL+PIN
EQD400-SR4	400G	QSFP-DD SR4	850nm	100M	-4.6-4	0-70	-4.6	MPO	VCSEL+PIN
EQD400-SR8	400G	QSFP-DD SR8	850nm	100M	-8.4-4	0-70	-3.4	MPO16	VCSEL+PIN
EQD400-DR4	400G	QSFP-DD DR4	1310nm	500	-2.9-4	0-70	-4.4	MPO12	EML+PIN
EQD400-LR4	400G	QSFP-DD LR4	1310nm	10KM	-2.7-5.1	0-70	-4.3	LC	ENL CWDM +PIN
EQD400-FR4	400G	QSFP-DD FR4	1310nm	2KM	-3.3-3.5	0-70	-2.6	LC	ENL CWDM+PIN
EQD400-LR8	400G	QSFP-DD LR8	1310nm	10KM	-2.8-5.3	0-70	-7.1	LC	EML+PIN

Applications 1:



Cisco Nexus 9364D-GX2A



Cisco Nexus 9364D-GX2A



400G DR4 1310nm 500M



MPO-MPO Female



400G DR4 1310nm 500M

Item No	ETU PN	Description
①	EQD400-DR4	400G DR4 1310nm 500M DDM
②	Patch cord	MPO-MPO Female OS2 TypeB 12core

200G Transceiver



Features

- Compliant with 200G-SR4/SR8/ optical specifications
- 4x53.125Gb/s electrical interface (200GAUI-4)
- Single +3.3V power supply
- Case temperature range: 0 ~ +70 C
- RoHS complain



Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EQP200-SR4	200G	QSFP56 SR4	850nm	100M	-6.5~4	0~70	-3.4	MPO	VCSEL+PIN
EQD200-SR8	200G	QSFP-DD SR8	850nm	100M	-8.4~2.4	0~70	-5.2	MPO	VCSEL+PIN
EQP200-FR4	200G	QSFP56 FR4	1270-1330nm	2KM	-4.2~4.7	0~70	-3.8	LC	DFB+PIN

Product List 100G QSFP28 Transceiver



Features

- Digital diagnostics monitoring interface
- Duplex LC optical receptacle
- No external reference clock
- Single 3.3 V power supply
- Case operating temperature range:0°C to 70°C



Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EQP85Y-01D	100G	QSFP28 SR4	850nm	100m	-8.4~2.4	0~70	-5.2	MPO	VCSEL+PIN
EQP31Y-2D-M	100G	QSFP28 IR4	1310nm	2km	-6~2	0~70	-11.35	MPO	PSM4 DFB+PIN
EQP29Y-2D	100G	QSFP28 CLR4	1295.56-1309.14nm	2km	-6.5~2.5	0~70	-10	LC	DFB+PIN
EQP27Y-2D	100G	QSFP28 IR4	1270-1330nm	2km	-4~2.5	0~70	-11.35	LC	DFB+PIN
EQP29Y-10D	100G	QSFP28 LR4	1295.56-1309.14nm	10km	-4.3~4.5	0~70	-8.6	LC	DFB+PIN
EQP29Y-30DI	100G	QSFP28 ER4	1295.56-1309.14nm	30km	-2.5~6.5	-40~85	-15.5	LC	DML+APD
EQP29Y-40DI-D	100G	QSFP28 ER4	1295.56-1309.14nm	40km	-1~6.5	-40~85	-16	LC	DML+APD
EQP31Y-10D	100G	QSFP28 LR1	1310nm	10km	-1.4~4.5	0~70	-7.5+TECQ (OMA)	LC	EML+PIN
EQP31Y-30D	100G	QSFP28 ER1	1310nm	30km	0~5.6	0~70	-7.5+TECQ (OMA)	LC	EML+APD
EQP29Y-40DI	100G	QSFP28 ER4	1295.56-1309.14nm	40km	-1~6.5	-40~85	-16	LC	EML+APD
EQP29Y-80DI	100G	QSFP28 ZR4	1295.56-1309.14nm	80km	1~6.5	-40~85	-28	LC	EML+SOA+PIN
EQP29Y-A0D	100G	QSFP28 ZR4	1295.56-1309.14nm	100km	3~6.5	0~70	-30	LC	EML+SOA+PIN
EQP89Y-01D	100G	QSFP28 SWDM4	850-940nm	150m	-9.5~3.4	0~70	-8.8	LC	VCSEL+PIN



100G QSFP28 BIDI Transceiver



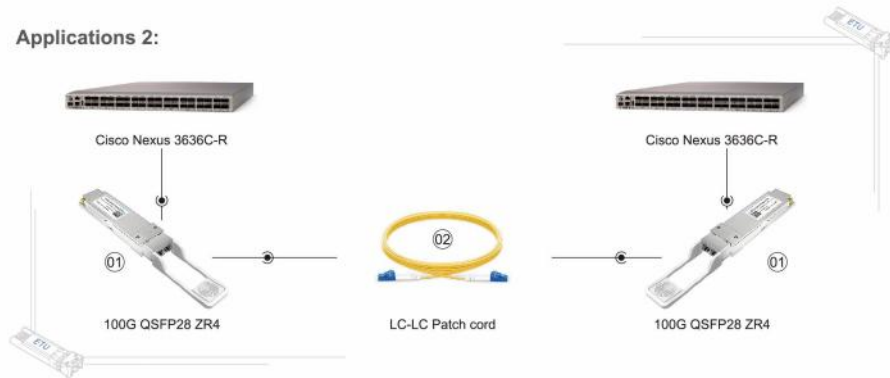
Features

- Hot-pluggable QSFP28 form factor
- Support Ethernet CAUI-4
- Support OTU4
- High Sensitivity PD Receiver
- Operation case temperature C/E/I-Temp
- Single 3.3V power supply
- Aligned with IEEE 802.3bs and 100G Lambda MSA
- Simplex LC receptacles
- I2C management interface
- RoHS-6 compliant
- 4X28G serial Interface(CEI-28G-VSR)

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB85Y-01D	100G	QSFP28 Bidi SR	850nm	100m	-6.2-4	0-70	-8	LC	VCSEL+PIN
★ EB23Y-10D	100G	QSFP28	1270/1330nm	10KM	-1, 4-4.5	0-70	-7.5+TECQ	LC	EML+PIN
★ EB32Y-10D	100G	QSFP28	1270/1330nm	10KM		0-70		LC	EML+PIN
EB91Y-20D	100G	QSFP28	1291/1311nm	20KM		0-70	-9+TECQ	LC	EML+PIN
EB19Y-20D	100G	QSFP28	1311/1291nm	20KM	-0.2-6.6	0-70		LC	EML+PIN
EB59Y-30D	100G	QSFP28	1304/1309nm	30KM	0-5.6	0-70	-13.9+TECQ	LC	EML+APD
EB95Y-30D	100G	QSFP28	1309/1304nm	30KM		0-70		LC	EML+APD
EB59Y-40D	100G	QSFP28	1304/1309nm	40KM	1.5-7.1	0-70	-15.2+TECQ	LC	EML+APD
EB95Y-40D	100G	QSFP28	1309/1304nm	40KM		0-70		LC	EML+APD

Applications 2:



Item No	ETU PN	Description
01	EQP29Y-80D	100G QSFP28 ZR4 1310nm 80KM LC DDM
02	Patch cord	LC/UPC-LC/UPC SM DX OS2

40G QSFP+ Transceiver



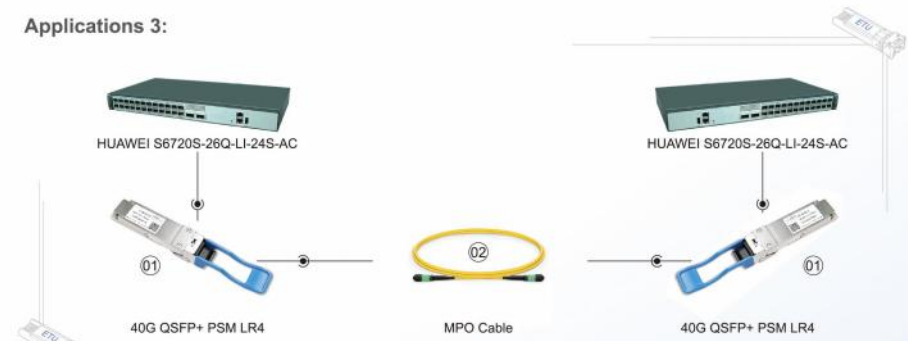
Features

- Hot-pluggable QSFP form factor
- Supports 41.2Gb/s aggregate bit rates
- Power dissipation < 3.5W
- Commercial case temperature range 0°C to 70°C
- Single 3.3V power supply
- XLPPI electrical interface
- Built-in digital diagnostic monitoring functions, including Tx/Rx power

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
🔥 EQP854X-01D	40G	QSFP+	850	100M	-7.6-0.5	0-70	<-9.5	MPO	VCSEL+PIN
EQP854X-03D	40G	QSFP+	850	300M	-7.6-1	0-70	<-9.9	MPO	VCSEL+PIN
EQP314X-2D-M	40G	QSFP+	1310	2KM	-7.6-1	0-70	<-9.9	MPO	DFB+PIN
EQP274X-2D	40G	QSFP+	CWDM4 1270-1330	2KM	-7-2.3	0-70	<-11.5	LC	DFB+PIN
🔥 EQP274X-10D	40G	QSFP+	CWDM4 1270-1330	10KM	-7-2.3	0-70	<-11.5	LC	DFB+PIN
EQP274X-20D	40G	QSFP+	CWDM4 1270-1330	20KM	-5.5-1.5	0-70	<-12.5	LC	DFB+PIN
EQP274X-30D	40G	QSFP+	CWDM4 1270-1330	30KM	-7-2.3	0-70	<-11.5	LC	DFB+PIN
EQP274X-40DI	40G	QSFP+	CWDM4 1270-1330	40KM	1-6	-40-85	<-15	LC	DFB+PIN
EB854X-01D-SR	40G	QSFP+ Bidi	850	150M	-4-5	0-70	<-11	LC	VCSEL+PIN
EQP314X-10D-M	40G	QSFP+	1310	10KM	-5.5-1.5	0-70	<-12.5	MPO	DFB+PIN
EQP294X-40DI	40G	QSFP+	1295.56-1309.14nm	40KM	-2.7-4.5	-40-85	<-16.8	LC	DFB+PIN
EQP294X-80DI	40G	QSFP+	1295.56-1309.14nm	80KM	1-6.5	-40-85	<-24	LC	DFB+APD
EB894X-02D	40G	QSFP+	850-940	240m	-7.5-3	0-70	-9.1	LC	VCSEL+PIN

Applications 3:



Item No	ETU PN	Description
01	EQP314X-10D-M	40G QSFP+ PSM LR4 1310nm 10KM MPO
02	MPO Cable	SM 12core MPO/APC MPO/APC Female 3.0mm LSZH type B

25G SFP28 Transceiver



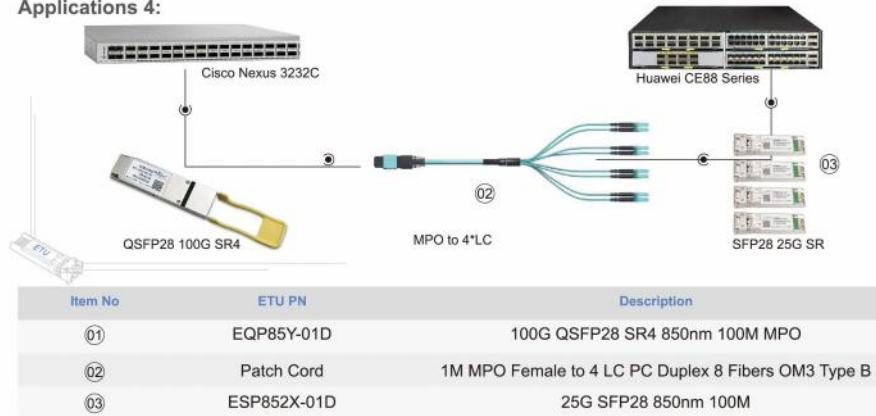
Features

- Supports 25Gbps data rate
- Internal CDR on both transmitter and receiver channel
- Hot-pluggable SFP28 form factor
- Duplex LC receptacle
- Single 3.3V power supply
- Digital diagnostics functions are available via the I2C interface
- ROHS 6 compliant
- Case operating temperature range: 0°C to 70°C

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP852X-01D	25G	SFP28	850	100M	-8.4-2.4	0-70	-10.3	LC	VCSEL+PIN
ESP852X-01D-H	25G	SFP28	850	100M	-8.4-2.4	0-70	-10.3	LC	VCSEL+PIN
ESP852X-01DI	25G	SFP28	850	100M	-8.4-2.4	-40-85	-10.3	LC	VCSEL+PIN
ESP852X-01DI	25G	SFP28	1310	10KM	-8.4-2.4	-40-85	-13.3	LC	DFB+PIN
ESP312X-10DI-H	25G	SFP28	1310	10KM	-7-2	-40-85	-13.3	LC	DFB+PIN
EESP312X-20DI	25G	SFP28	1310	20KM	-7-2	-40-85	-14	LC	DFB+PIN
ESP312X-30DI	25G	SFP28	1310	30KM	0-6	-40-85	-18	LC	DFB+APD
ESP312X-40DI-D	25G	SFP28	1310	40KM	0-6	-40-85	-19	LC	DFB+APD
ESP312X-40DI	25G	SFP28	1310	40KM	0-6	-40-85	-19	LC	EML+APD
ESP312X-80DI	25G	SFP28	1309	80KM	2-7	-40-85	-28	LC	EML+SOA+PIN
ESP302X-80DI	25G	SFP28	1300	80KM	2-7	-40-85	-28	LC	EML+SOA+PIN
ESCxx2X-10D	25G	SFP28	CWDM1270-1370	10KM	0-6	0-70	-13.3	LC	DFB+PIN
ESCxx2X-40D	25G	SFP28	CWDM1270-1330	40KM	0-6	0-70	-18	LC	DFB+APD
ESDxx2X-10DI	25G	SFP28	DWDM (C17-61)	10KM	-1-6	-40-85	-13.3	LC	EML+PIN
ESDxx2X-15DI	25G	SFP28	DWDM (C17-61)	15KM	-1-6	-40-85	-19	LC	EML+APD
EST962X-15DI	25G	SFP28	DWDM 1566.72-1528.77nm	15KM	0-5	-40-85	-19	LC	MZM+APD

Applications 4:



25G SFP28 Single Fiber



Features

- Supports up to 25.78Gbps bit rates
- Hot-pluggable SFP+ footprint
- Compliant with SFP+ MSA and SFF-8472
- Compatible with RoHS
- Single +3.3V power supply
- Real Time Digital Diagnostic Monitoring

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB232X-03DI	25G	SFP28	Tx1270/Rx1330	300M	-7-2	-40-85	-12	LC	DFB+PIN
EB322X-03DI	25G	SFP28	Tx1330/Rx1270	300M	-7-2	-40-85	-12	LC	DFB+PIN
EB232X-10DI	25G	SFP28	Tx1270/Rx1330	10KM	-7-2	-40-85	-13.3	LC	DFB+PIN
EB322X-10DI	25G	SFP28	Tx1330/Rx1270	10KM	-7-2	-40-85	-13.3	LC	DFB+PIN
EB232X-40DI	25G	SFP28	Tx1270/Rx1330	40KM	0-6	-40-85	-18	LC	DFB+APD
EB322X-40DI	25G	SFP28	Tx1330/Rx1270	40KM	0-6	-40-85	-18	LC	DFB+APD
EB212X-40DI	25G	SFP28	Tx1270/Rx1310	40KM	0-6	-40-85	-19	LC	DFB+APD
EB122X-40DI	25G	SFP28	Tx1310/Rx1270	40KM	0-6	-40-85	-19	LC	DFB+APD
EB932X-40DI	25G	SFP28	TX1295/RX1309	40KM	0-6	-40-85	-19	LC	EML+APD
EB392X-40DI	25G	SFP28	TX1309/RX1295	40KM	0-6	-40-85	-19	LC	EML+APD
EB932X-60DI	25G	SFP28	TX1295/RX1309	60KM	2-7	-40-85	-21	LC	EML+APD
EB392X-60DI	25G	SFP28	TX1309/RX1295	60KM	2-7	-40-85	-21	LC	EML+APD
EB392X-80DI	25G	SFP28	TX1295/RX1309	80KM	2-7	-40-85	-28	LC	EML+SOA+PIN
EB932X-80DI	25G	SFP28	TX1309/RX1295	80KM	2-7	-40-85	-28	LC	EML+SOA+PIN

Active Optical Cable

400G QSFP56-DD AOC



Features

- ❖ Up to 53.125Gbps data rate per channel by PAM4 modulation
- ❖ Support 400GAUI-8 electrical interface
- ❖ Integrated 850nm VCSEL array and PD array
- ❖ DDM function implemented
- ❖ Hot-pluggable QSFP-DD form factor
- ❖ Single +3.3V power supply
- ❖ Compliant with ROHS2.0

200G QSFP56 AOC



Features

- ❖ Supports IBTA InfiniBand HDR
- ❖ Up to 200Gb/s data rate
- ❖ 4x 50Gb/s PAM4 modulation
- ❖ SFF-8665 compliant QSFP56 port
- ❖ SFF-8636 compliant I2C management
- ❖ Single 3.3V power supply
- ❖ 4.5W power dissipation each end, with retiming
- ❖ Operating case temp Commercial: 0°C to +70°C
- ❖ Hot pluggable
- ❖ RoHS compliant

Product Information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EAQD400-1	400bps	OM3	3.0mm	1M
EAQD400-3	400bps	OM3	3.0mm	3M
EAQD400-5	400bps	OM3	3.0mm	5M
EAQD400-7	400bps	OM3	3.0mm	7M
EAQD400-10	400bps	OM3	3.0mm	10M

Note: The cable can be offered different length by customer's request, the longest cable be reached 100M.

Product Information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EAQP200-1	200Gbps	OM3	3.0mm	1M
EAQP200-3	200Gbps	OM3	3.0mm	3M
EAQP200-5	200Gbps	OM3	3.0mm	5M
EAQP200-7	200Gbps	OM3	3.0mm	7M
EAQP200-10	200Gbps	OM3	3.0mm	10M
EAQP200-15	200Gbps	OM3	3.0mm	15M
EAQP200-20	200Gbps	OM3	3.0mm	20M
EAQP200-25	200Gbps	OM3	3.0mm	25M
EAQP200-30	200Gbps	OM3	3.0mm	30M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

100G QSFP28 AOC



Features

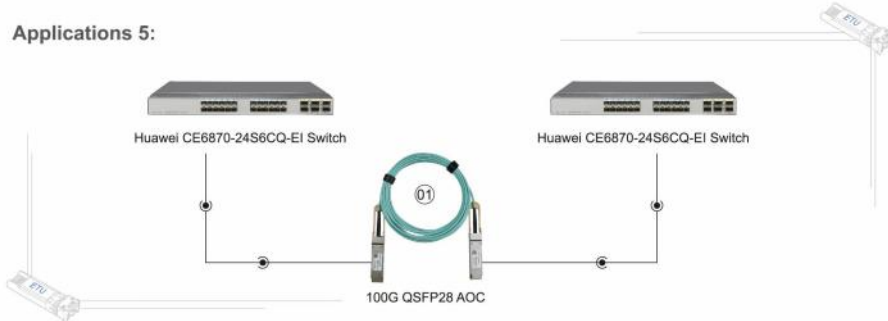
- Four-channel full-duplex active optical cable
- Reliable VCSEL array technology using multi-mode fiber
- Available in standard lengths of 3, 5, 10, 15, 20, 30, 50, 70m
- Low power consumption <3.5W
- Commercial case temperature range: 0°C to 70°C
- 3.3V power supply voltage
- ROHS 6 compliant
- Hot pluggable QSFP form factor

Product Information

PN	Data Rate	Package	Cable Type	Fiber Diameter	Fiber Length
EAQPY-1	100G	QSFP28	OM3	3.0mm	1M
EAQPY-2	100G	QSFP28	OM3	3.0mm	2M
EAQPY-3	100G	QSFP28	OM3	3.0mm	3M
EAQPY-5	100G	QSFP28	OM3	3.0mm	5M
EAQPY-7	100G	QSFP28	OM3	3.0mm	7M
EAQPY-4SP1	100G	QSFP28 to 4SFP28	OM3	3.0mm	1M
EAQPY-4SP3	100G	QSFP28 to 4SFP28	OM3	3.0mm	3M
EAQPY-4SP5	100G	QSFP28 to 4SFP28	OM3	3.0mm	5M
EAQPY-4SP7	100G	QSFP28 to 4SFP28	OM3	3.0mm	7M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

Applications 5:



Item No	ETU PN	Description
01	EAQPY-5	100G QSFP28 to QSFP28 AOC Cable 5M

40G QSFP+ AOC



Features

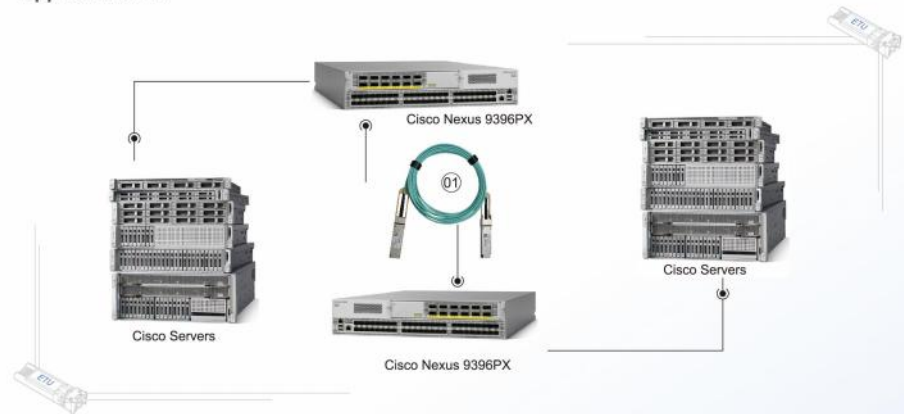
- Four-channel full-duplex active optical cable
- Transmission data rate up to 11.3Gbit/s per channel
- Reliable VCSEL array technology using multi mode fiber
- Available in standard lengths of 3, 5, 10, 15, 20, 30, 50, 100m
- Low power consumption <1.5W
- Commercial case temperature range: 0°C to 70°C
- 3.3V power supply voltage
- ROHS 6 compliant
- Hot pluggable QSFP form factor

Product information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EAQP4X-1	40Gbps	OM3	3.0mm	1M
EAQP4X-3	40Gbps	OM3	3.0mm	3M
EAQP4X-5	40Gbps	OM3	3.0mm	5M
EAQP4X-7	40Gbps	OM3	3.0mm	7M
EAQP4X-10	40Gbps	OM3	3.0mm	10M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

Applications 6:



Item No	ETU PN	Description
01	EAQP4X-1	40G QSFP+ to QSFP+ AOC Cable 1M

40G QSFP+ to 4*10G SFP+ AOC



Features

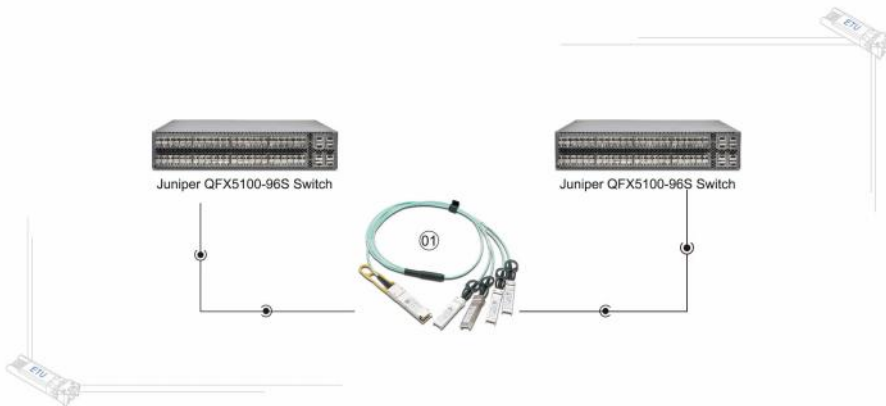
- Electrical interface compliant to QSFP+ connector (SFF-8436) and SFP+ connectors (SFF-8431)
- Hot pluggable
- 850nm VCSEL transmitter, PIN photo-detector receiver
- Up to 30m on OM2 MMF
- Up to 100m on OM3 MMF
- Commercial case temperature range: 0°C to 70°C
- All-metal housing for superior EMI performance
- ROHS compliant (lead free)

Product Information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EAQP4X-4SP1	40Gbps	OM3	3.0mm	1M
EAQP4X-4SP3	40Gbps	OM3	3.0mm	3M
EAQP4X-4SP5	40Gbps	OM3	3.0mm	5M
EAQP4X-4SP7	40Gbps	OM3	3.0mm	7M
EAQP4X-4SP10	40Gbps	OM3	3.0mm	10M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

Applications 7:



Item No	ETU PN	Description
01	EAQP4X-4SP1	40G QSFP+ to 4X10G SFP+ AOC Cable 1M

25G SFP28 AOC



Features

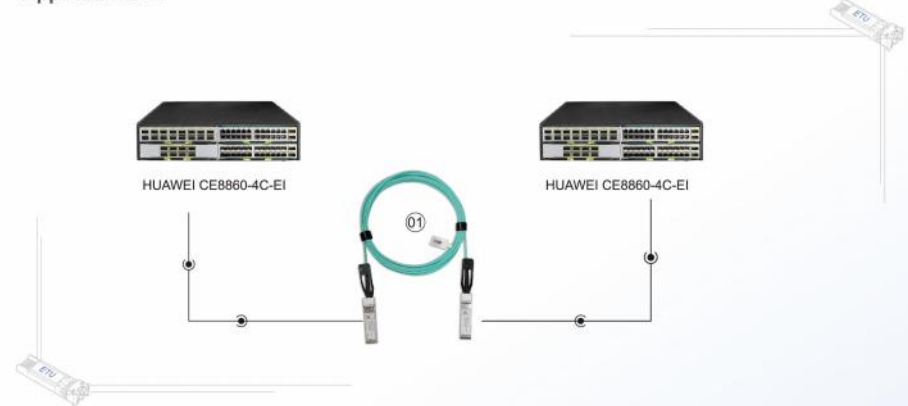
- Electrical interface compliant to SFF-8431
- 850nm VCSEL laser and PIN photo-detector
- Maximum link length of 70m on OM3 MMF and 100m on OM4 MMF
- Digital diagnostics functions are available via the I2C interface
- ROHS compliant
- Hot pluggable

Product Information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EASP2X-1	25Gbps	OM3	3.0mm	1M
EASP2X-3	25Gbps	OM3	3.0mm	3M
EASP2X-5	25Gbps	OM3	3.0mm	5M
EASP2X-7	25Gbps	OM3	3.0mm	7M
EASP2X-10	25Gbps	OM3	3.0mm	10M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

Applications 8:



Item No	ETU PN	Description
01	EASP2X-3	25G SFP28 to SFP28 AOC Cable 3M

10G SFP+ AOC



Features

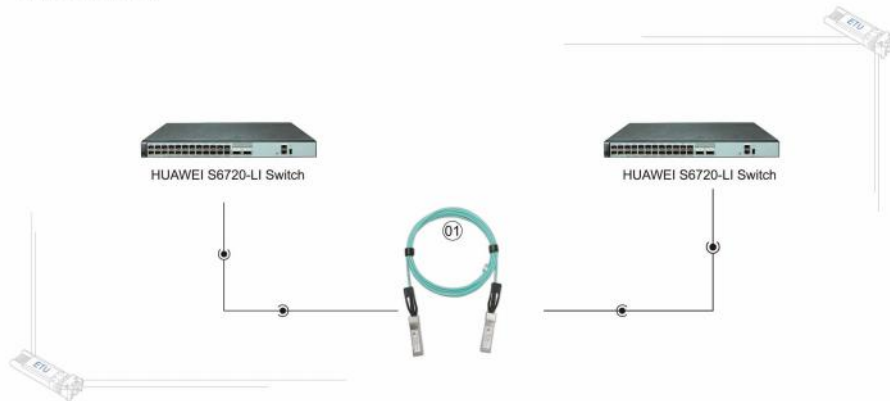
- ◆ Electrical interface compliant to SFF-8431
- ◆ Hot pluggable
- ◆ 850nm VCSEL transmitter, PIN photo-detector receiver
- ◆ Up to 300m on OM3 MMF
- ◆ Commercial case temperature range: 0°C to 70°C
- ◆ All-metal housing for superior EMI performance
- ◆ ROHS compliant (lead free)

Product Information

PN	Data Rate	Cable Type	Fiber Diameter	Fiber Length
EASP2X-1	10Gbps	OM3	3.0mm	1M
EASP2X-2	10Gbps	OM3	3.0mm	2M
EASP2X-3	10Gbps	OM3	3.0mm	3M
EASP2X-5	10Gbps	OM3	3.0mm	5M
EASP2X-7	10Gbps	OM3	3.0mm	7M
EASP2X-10	10Gbps	OM3	3.0mm	10M

Note: The cable can be offered different length by customer's request, the longest cable be reached 200M.

Applications 9:



Item No	ETU PN	Description
01	EASP2X-1	10G SFP+ to SFP+ AOC Cable 1M

800G OSFP DAC



Features

- ◆ Compatible with IEEE 802.3ck
- ◆ Supports aggregate data rates of 800Gbps(PAM4)
- ◆ Optimized construction to minimize insertion loss and crosstalk
- ◆ Pull-to-release slide latch design
- ◆ Straight and break out assembly configurations available
- ◆ Customized cable braid termination limits EMI radiation
- ◆ Customizable EEPROM mapping for cable signature
- ◆ 26AWG and 30AWG cable
- ◆ 3.3V Power supply
- ◆ Temperature Range: 0- 70 °C
- ◆ RoHS Compliant

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDOP800-1	800bps	30AWG	1M
EDOP800-2-26	800bps	26AWG	2M
EDOP800-3-26	800bps	26AWG	3M

400G QSFP-DD DAC



Features

- ◆ Compatible with IEEE 802.3bj and IEEE 802.3cd
- ◆ Supports aggregate data rates of 400Gbps(PAM4)
- ◆ Optimized construction to minimize insertion loss and cross talk
- ◆ Pull-to-release slide latch design
- ◆ 28AWG through 30AWG cable
- ◆ Straight and break out assembly configurations available
- ◆ Customized cable braid termination limits EMI radiation
- ◆ Customizable EEPROM mapping for cable signature
- ◆ RoHS omplia

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQD400-1	400bps	30AWG	1M
EDQD400-2-26	400bps	26AWG	2M
EDQD400-2.5-26	400bps	26AWG	3M

200G QSFP56 DAC



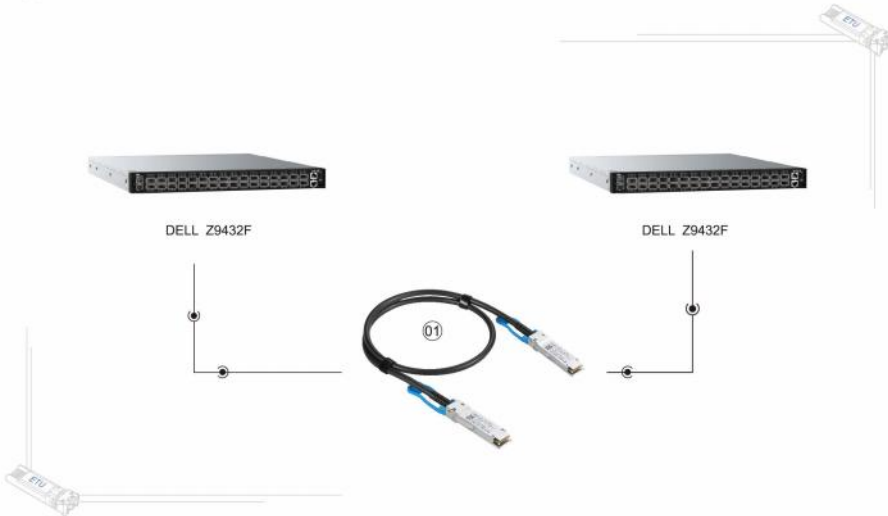
Features

- ❖ Compatible with IEEE 802.3bj and IEEE 802.3cd
- ❖ In accordance with the paging function in the protocol SFF-8636, paging can be selected 00H or 02H in 127 bytes
- ❖ Supports aggregate data rates of 200Gbps(PAM4)
- ❖ Optimized construction to minimize insertion loss and cross talk
- ❖ Backward compatible with existing QSFP+ connectors and cages
- ❖ Pull-to-release slide latch design
- ❖ 26AWG through 30AWG cable
- ❖ Straight and break out assembly configurations available
- ❖ Customized cable braid termination limits EMI radiation
- ❖ Customizable EEPROM mapping for cable signature
- ❖ RoHS omplia

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQP200-1	200bps	30AWG	1M
EDQP200-2-26	200bps	26/30AWG	2M
EDQP200-3-26	200bps	26AWG	3M

Applications 10:



Item No	ETU PN	Description
01	EDQP200-1	200G QSFP56 to QSFP56 DAC 1M

100G QSFP28 DAC



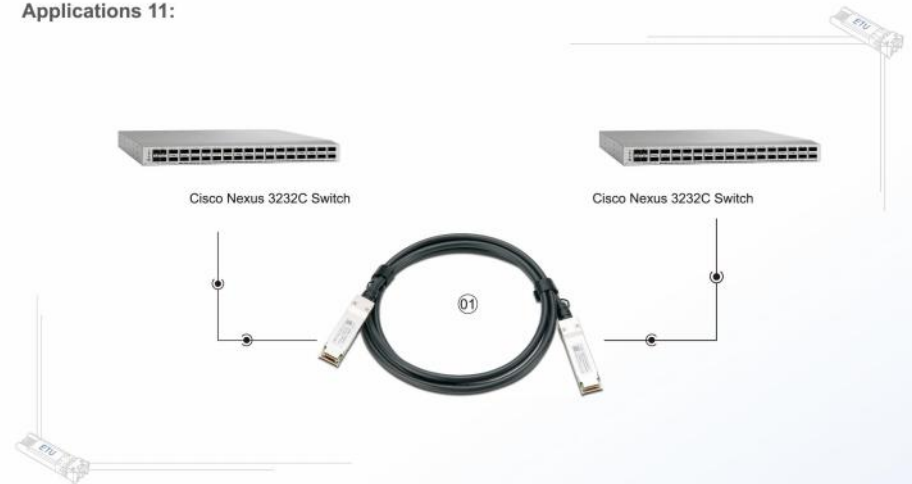
Features

- ❖ Compliant with SFF-8636
- ❖ Support IEEE802.3Bj(Ethernet)
- ❖ I2C based two-wire serial interface for easy control and monitoring
- ❖ Hot pluggable
- ❖ Low crosstalk
- ❖ Low power consumption

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQPY-1	100Gbps	30AWG	1M
EDQPY-2	100Gbps	30AWG	2M
EDQPY-3	100Gbps	30AWG	3M
EDQPY-5-26	100Gbps	26AWG	5M

Applications 11:



Item No	ETU PN	Description
01	EDQPY-1	100G QSFP28 to QSFP28 DAC 1M

56G QSFP+ DAC



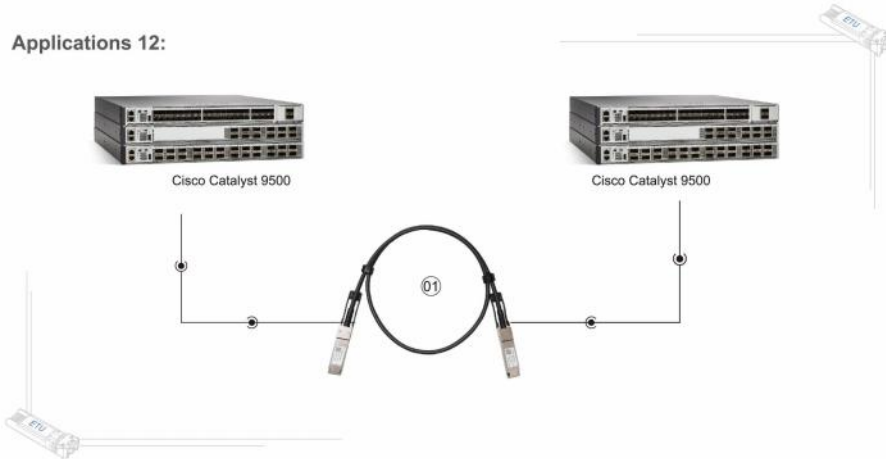
Features

- ❖ Compliant with SFF- 8436.
- ❖ Up to 14.3125Gbps data rate per channel
- ❖ Up to 7m transmission
- ❖ Operating temperature: 0~70 C
- ❖ Single 3.3V power supply
- ❖ RoHS compliant

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQP5X-1	56Gbps	30AWG	1M
EDQP5X-2	56Gbps	30AWG	2M
EDQP5X-3	56Gbps	30AWG	3M
EDQP5X-5-26	56Gbps	26AWG	5M

Applications 12:



Item No	ETU PN	Description
01	EDQP5X-1	56G QSFP+ TO QSFP+ DAC Passive Cable 1M

40G QSFP+ DAC



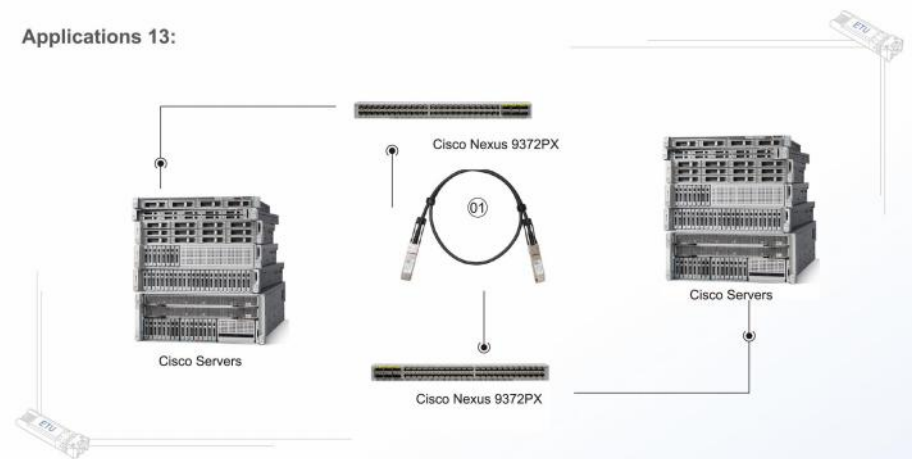
Features

- ❖ Compliant QSFP MSA specifications
- ❖ Fully compatible with IEEE802.3ba and infiniband QDR specifications
- ❖ 40Gb/s total bandwidth
- ❖ Single 3.3V power supply, low power consumption <1.5W
- ❖ All-metal housing for superior EMI performance
- ❖ 30 AWG to 24 AWG cable sizes available
- ❖ ROHS compliant

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQP4X-1	40Gbps	30AWG	1M
EDQP4X-2	40Gbps	30AWG	2M
EDQP4X-3	40Gbps	30AWG	3M
EDQP4X-5-26	40Gbps	26AWG	5M
EDQP4X-7-24	40Gbps	24AWG	7M

Applications 13:



Item No	ETU PN	Description
01	EDQP4X-1	40G QSFP+ to QSFP+ DAC Passive Cable 1M

40G QSFP+ to 4*10G SFP+ DAC



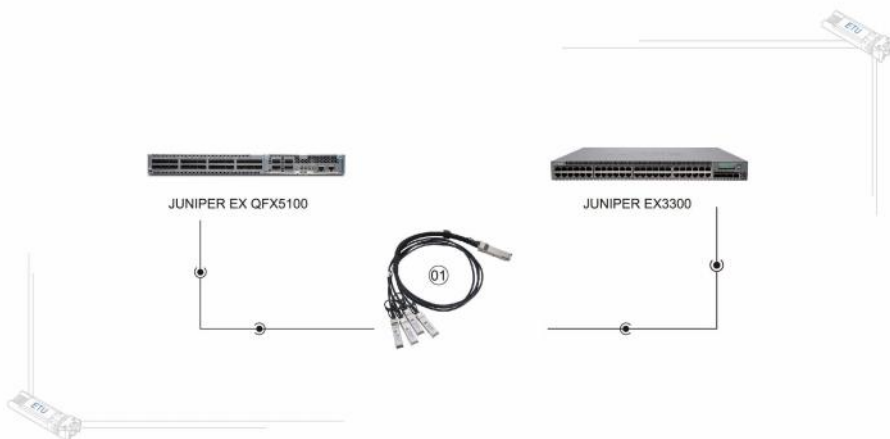
Features

- Connector A: (1) QSFP 40Gbps rated connector (SFF-8436 compliant)
- Connector B: (4) SFP+ 10Gbps rated connectors (SFF-8431 compliant)
- Economically links up a QSFP port with an upstream 10GbE-SFP+ switch
- Fully compliant to the latest SFP+ & QSFP MSA (Multi-source-agreement)
- Supports all current 10-Gigabit Ethernet and 40-Gigabit Ethernet standards
- Fully ROHS compliant for environmental protection

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDQP4X-4SP1	40Gbps	30AWG	1M
EDQP4X-4SP2	40Gbps	30AWG	2M
EDQP4X-4SP3	40Gbps	30AWG	3M
EDQP4X-4SP5-26	40Gbps	26AWG	5M
EDQP4X-4SP7-24	40Gbps	24AWG	7M

Applications 14:



Item No	ETU PN	Description
01	EDQP4X-4SP1	40G QSFP+ to 4*SFP+ DAC Passive Cable 1M

25G SFP28 DAC



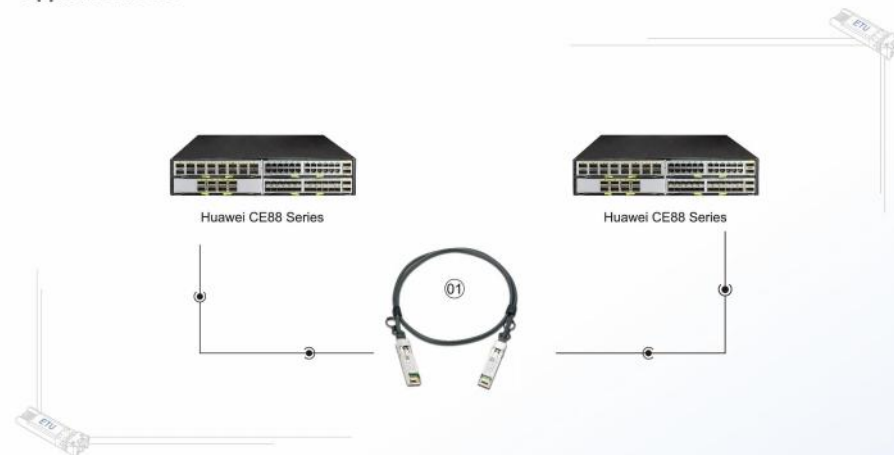
Features

- Up to 25Gb/s data rate SFF-8402 compliant
- Single 3.3V supply voltage
- BER better than 10⁻¹⁵
- Hot pluggable
- Compliant with SFF-8432
- Compliant with IEEE 802.3by
- Compliant with ROHS
- Commercial case temperature range: 0°C to 70°C

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDSP2X-1	25Gbps	30AWG	1M
EDSP2X-2	25Gbps	30AWG	2M
EDSP2X-3	25Gbps	30AWG	3M
EDSP2X-5-26	25Gbps	26AWG	5M

Applications 15:



Item No	ETU PN	Description
01	EDSP2X-1	25G SFP28 to SFP28 DAC Cable 1M

10G SFP+ DAC



Features

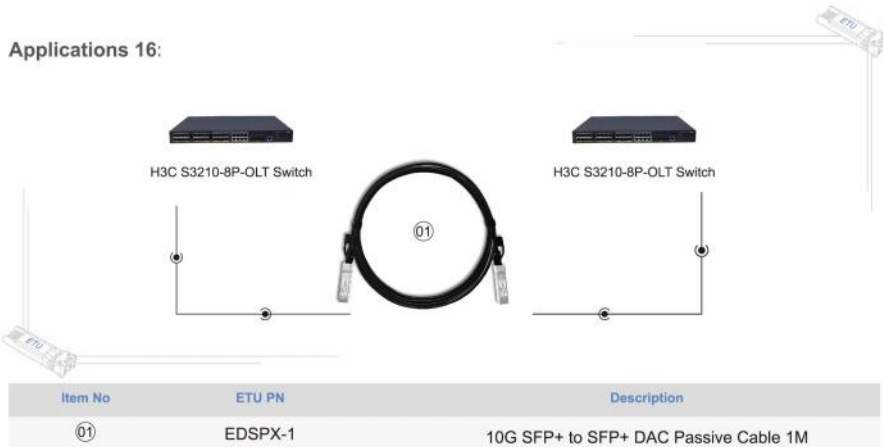
- ❖ Supports multi-gigabit data rates up to 10.5Gbps
- ❖ Supports 1x, 2x, 4x and 8x fiber channel data rates
- ❖ Hot-pluggable SFP 20PIN footprint
- ❖ Serial ID module on MOD(0-2)
- ❖ AC coupling of PECL signals
- ❖ EMI/EMC performance
- ❖ Low power consumption < 0.5W
- ❖ Power supply :+3.3V
- ❖ Compliant to SFP+ MSA
- ❖ Commercial case temperature range: 0°C to 70°C
- ❖ ROHS compliance

Product Information

PN	Data Rate	Fiber Diameter	Fiber Length
EDSPX-0.5	10Gbps	30AWG	0.5M
EDSPX-1	10Gbps	30AWG	1M
EDSPX-2	10Gbps	30AWG	2M
EDSPX-3	10Gbps	30AWG	3M
EDSPX-5-24	10Gbps	24AWG	5M
EDSPX-7-24	10Gbps	24AWG	7M
EDSPX-10-24	10Gbps	24AWG	10M
EDSPX-15-24	10Gbps	24AWG	15M

Note: The cables are divided into active and passive. It is suggested that choose active cable if 7M or more.

Applications 16:



10G XFP Transceiver



Features

- ❖ Supports 9.95Gb/s to 11.1Gb/s bit rates
- ❖ 3.3V power supply and TTL logic interface
- ❖ LC connector
- ❖ Hot pluggable
- ❖ XFP MSA rev 4.5 compliant
- ❖ DDM function

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EX85X-03D	10G	XFP	850	300M	-6~-1	0~70	<-10	LC	VSCSEL+PIN
EX31X-10D	10G	XFP	1310	10KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EX31X-20D	10G	XFP	1310	20KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EX31X-40D	10G	XFP	1310	40KM	-1~-4	0~70	<-16.4	LC	DFB+PIN
EX55X-40D	10G	XFP	1550	40KM	-1~-4	0~70	<-16.4	LC	EML+PIN
EX55X-80D	10G	XFP	1550	80KM	0~5	0~70	<-24	LC	EML+APD
EXCxx-10D	10G	XFP	1270~1450	10KM	-1~-3	0~70	<-15	LC	CWDM+PIN
EXCxx-40D	10G	XFP	1470~1610	40KM	-1~-3	0~70	<-15	LC	CWDM+PIN
EXCxx-80D	10G	XFP	1470~1610	80KM	0~5	0~70	<-24	LC	CWDM+APD
EXDxx-40D	10G	XFP	1528.77~1563.86	40KM	-1~-4	0~70	<-15.8	LC	DWDM+PIN
EXDxx-80D	10G	XFP	1528.77~1563.86	80KM	0~5	0~70	<-24	LC	DWDM+APD
EXB23X-10D	10G	XFP	1270/1330	10KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EXB32X-10D	10G	XFP	1330/1270	10KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EXB23X-20D	10G	XFP	1270/1330	20KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EXB32X-20D	10G	XFP	1330/1270	20KM	-6~-0.5	0~70	<-14.4	LC	DFB+PIN
EXB23X-40D	10G	XFP	1270/1330	40KM	-1~-3	0~70	<-15.8	LC	DFB+PIN
EXB32X-40D	10G	XFP	1330/1270	40KM	-1~-3	0~70	<-15.8	LC	DFB+PIN
EXB23X-60D	10G	XFP	1270/1330	60KM	2~6	0~70	<-20	LC	DFB+APD
EXB32X-60D	10G	XFP	1330/1270	60KM	2~6	0~70	<-20	LC	DFB+APD
EXB45X-80D	10G	XFP	1490/1550	80KM	0~4	0~70	<-30	LC	EML+APD
EXB54X-80D	10G	XFP	1550/1490	80KM	-1~-3	0~70	<-30	LC	EML+APD

10G SFP+ Single Fiber Transceiver



Features

- Single LC connector
- Supports hot-pluggable
- Excellent ESPD protection
- 1270nm transmitter and 1330nm receiver
- Distance up to 20Km on 9/125um SMF
- ROHS compliant and lead-free
- Commercial case temperature range: 0°C to 70°C
- Single 3.3V power supply and low power dissipation <1.0W
- Support 9.95328Gbps and 10.3125Gbps data rate
- Compliant with IEEE 802.3ae 10GBASE-LR and 10GBASE-LW
- Compliant with SFF-8431 SFP+ MSA and SFF-8472
- Digital diagnostic monitor function

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB23X-10DI	10G	SFP+	1270/1330	10KM	-6~-0.5	-40-85	<-14.4	LC	DFB+PIN
EB32X-10DI	10G	SFP+	1330/1270	10KM	-6~-0.5	-40-85	<-14.4	LC	DFB+PIN
EB23X-20DI	10G	SFP+	1270/1330	20KM	-6~-0.5	-40-85	<-14.4	LC	DFB+PIN
EB32X-20DI	10G	SFP+	1330/1270	20KM	-6~-0.5	-40-85	<-14.4	LC	DFB+PIN
EB23X-40DI	10G	SFP+	1270/1330	40KM	-1~3	-40-85	<-15.8	LC	DFB+PIN
EB32X-40DI	10G	SFP+	1330/1270	40KM	-1~3	-40-85	<-15.8	LC	DFB+PIN
EB23X-60DI	10G	SFP+	1270/1330	60KM	0~5	-40-85	<-20	LC	DFB+APD
EB32X-60DI	10G	SFP+	1330/1270	60KM	0~5	-40-85	<-20	LC	DFB+APD
EB45X-80DI	10G	SFP+	1490/1550	80KM	0~4	-40-85	<-23	LC	EML+APD
EB54X-80DI	10G	SFP+	1550/1490	80KM	0~4	-40-85	<-23	LC	EML+APD
EB45X-A0DI	10G	SFP+	1490/1550	100KM	1~6	-40-85	<-25	LC	EML+APD
EB54X-A0DI	10G	SFP+	1550/1490	100KM	1~6	-40-85	<-25	LC	EML+APD

10G SFP+ Dual Fiber Transceiver



Features

- Hot pluggable
- 10Gb/s serial optical interface
- Compliant with SFP+ MSA
- SFP MSA package with duplex LC connector
- Digital diagnostic monitor interface
- Very low EMI and excellent ESPD protection
- High transmission margin
- +3.3V single power supply
- Below 1.5W power consumption
- SFP mechanical interface
- Wide data-rate range

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP85X-03DI	10G	SFP+	850	300M	-6~1	-40-85	<-10	LC	VCSEL+PIN
ESP31X-10D	10G	SFP+	1310	10KM	-6~-0.5	0-70	<-14.4	LC	DFB+PIN
ESP31X-20D	10G	SFP+	1310	20KM	-6~-0.5	0-70	<-14.4	LC	DFB+PIN
ESP31X-40DI	10G	SFP+	1310	40KM	-1~4	-40-85	<-16.4	LC	DFB+PIN
ESP55X-40DI	10G	SFP+	1550	40KM	-1~4	-40-85	<-16.4	LC	EML+PIN
ESP55X-80DI	10G	SFP+	1550	80KM	0~5	-40-85	<-24	LC	EML+APD

Applications 17:



10G SFP+ CWDM/DWDM Transceiver



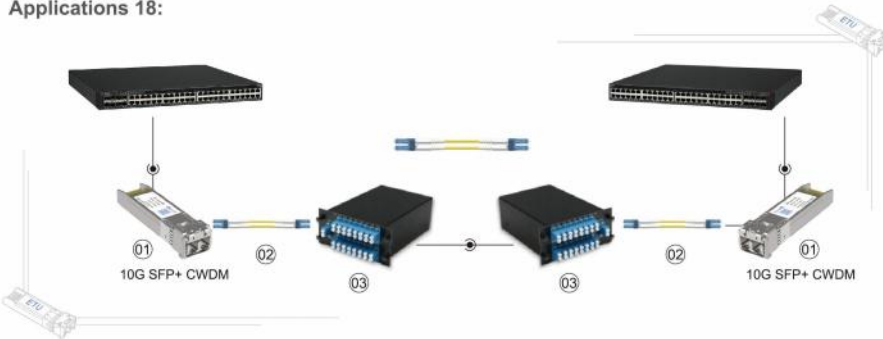
Features

- ❖ 10Gb/s serial optical interface compliant to 802.3ae 10GBASE-ER/EW
- ❖ Electrical interface compliant to SFF-8431 specifications for enhanced 8.5 and 10 Gigabit small form factor pluggable module "SFP+"
- ❖ 2-wire interface for management specification compliant with SFF 8472
- ❖ Digital diagnostic monitoring interface for optical transceivers eye safety designed to meet laser class1 compliant with IEC60825-1
- ❖ Commercial case temperature range: 0°C to 70°C
- ❖ Metal enclosure for low EMI
- ❖ Low power consumption advanced firmware allow customer-system encryption information to be stored in transceiver
- ❖ Single +3.3V power supply

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESCxxX-10D	10G	SFP+	1270-1610	10KM	-6~-0.5	0-70	<-14.4	LC	CWDM+PIN
ESCxxX-20D	10G	SFP+	1270-1610	20KM	-6~-0.5	0-70	<-14.4	LC	CWDM+PIN
ESCxxX-40DI	10G	SFP+	1470-1610	40KM	-1~3	-40-85	<-15.8	LC	EML+PIN
ESCxxX-80DI	10G	SFP+	1470-1610	80KM	0~5	-40-85	<-24	LC	EML+APD
ESDxxX-40DI	10G	SFP+	1528.77~1563.86	40KM	-1~4	-40-85	<-15.8	LC	EML+PIN
ESDxxX-80DI	10G	SFP+	1528.77~1563.86	80KM	0~5	-40-85	<-24	LC	EML+APD
EST96X-80DI	10G	SFP+	Tunable DWDM	80KM	-1~4	-40-85	<-24	LC	EML+APD

Applications 18:



Item No	ETU PN	Description
①	ESCxxX-20D	10G SP+ CWDM 20KM DDM
②	Patch Cord	LC/UPC-LC/UPC SM DX OS2
③	Mux/Demux	16 Channels 1470-1610nm Dual Fiber CWDM Mux/Demux

8G SFP+ Dual Fiber Transceiver



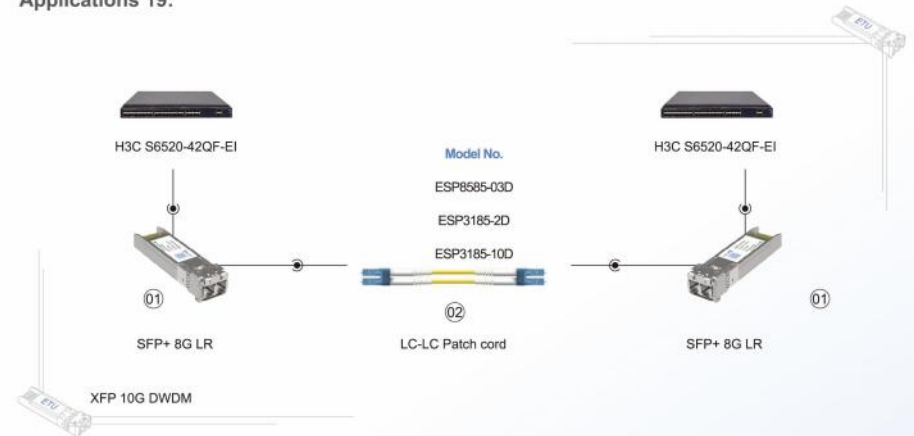
Features

- ❖ Up to 8.5Gb/s Bi-directional data links
- ❖ Hot pluggable SFP+ footprint
- ❖ Built-in digital diagnostic in functions
- ❖ Duplex LC connector
- ❖ Single 3.3V power supply
- ❖ Commercial case temperature range: 0°C to 70°C
- ❖ ROHS6 compliant (lead free)

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP8585-03D	8G	SFP+	850	300M	-6~-1	0-70	<-10	LC	VCSEL+PIN
ESP3185-2D	8G	SFP+	1310	2KM	-9~3	0-70	<-18	LC	FP+PIN
ESP3185-10D	8G	SFP+	1310	10KM	-6~-0.5	0-70	<-14.4	LC	DFB+PIN

Applications 19:



Item No	ETU PN	Description
①	ESP3185-10D	8G SFP+ 1310nm 10KM DDM
②	Patch Cord	LC/UPC-LC/UPC SM DX OS2

Copper Transceiver



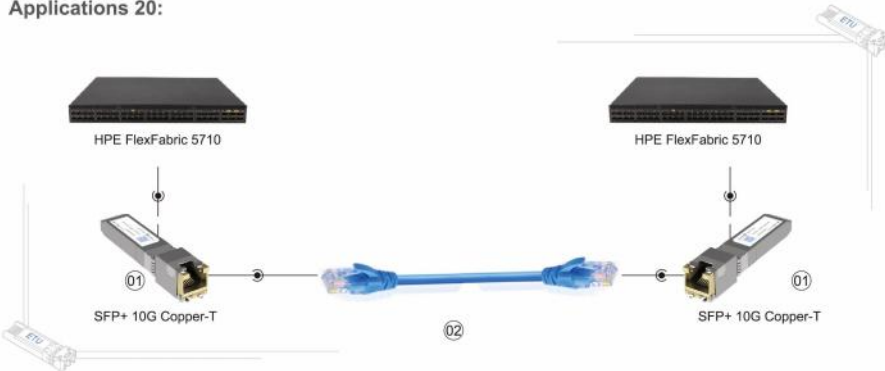
Features

- ❖ Supports 10Gbase-T / 5Gbase-T / 2.5Gbase-T / 1000base-T
- ❖ Hot-pluggable SFP footprint
- ❖ Compact RJ-45 connector assembly
- ❖ ROHS compliant and lead free
- ❖ Single +3.3V power supply
- ❖ 10 Gigabit Ethernet over Cat 6a cable
- ❖ Ambient operating temperature: 0°C to +65°C

Product Information

Model No.	Data Rate	Distance	Temp.(°C)	Interface
ES-T1-R	1000M only	100M	0-70	RJ45
ES-T2-R	10/100/1000M	100M	0-70	RJ45
ES-T3-R	10/100M	100M	0-70	RJ45
ES-T4-R	1000M	100M	-40-+85	RJ45
ES-T5-R	10G	30M	0-+65	RJ45
ES-T5-R-1	10G	30M	0-+65	RJ45
ES-T6-R	10G	80M	0-+65	RJ45

Applications 20:



Item No	ETU PN	Description
01	ES-T5-R	10G SFP+ Copper-T RJ45 30m
02	Cat6 Cable	Cat6 UTP Cable

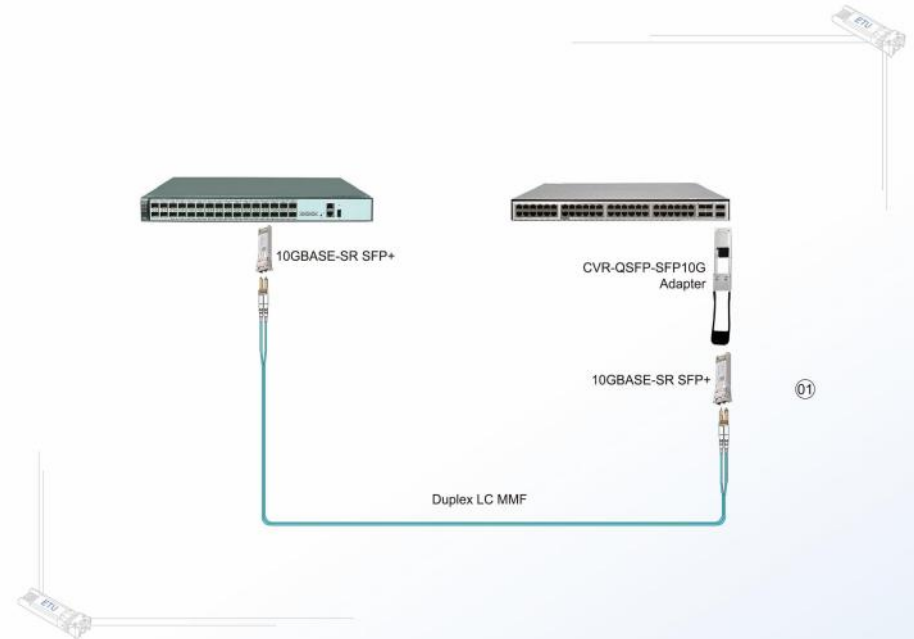
40Gbps QSFP to 10G SFP+ Converter



Features

- ❖ Trouble-free installation and network bring-up
- ❖ Compliant to industry standards :QSFP+ MSA SFF-8436 / SFP+ MSA SFF-8431
- ❖ Precision process control for minimization of pair-to-pair skew
- ❖ 1 independent duplex channels operating at 10Gbps/2.5Gbps/5Gbps
- ❖ All-metal housing for superior EMI performance
- ❖ 100 ohm differential impedance system
- ❖ Operating case temperature: -20 to 85 C
- ❖ Built-in digital diagnostic functions
- ❖ Low insertion loss
- ❖ Low crosstalk
- ❖ Secure latching mechanism
- ❖ RoHS compliant

Applications 21:



2.5G SFP Single Fiber Transceiver



Features

- Dual data-rate of 2.488Gbps/2.125Gbps operation
- Compliant with SFP MSA and SFF-8472 with simplex LC receptacle
- Digital diagnostic monitoring: internal calibration or external calibration
- Compatible with SONET OC-48 system
- Compatible with ROHS
- +3.3V single power supply
- Commercial case temperature range: 0°C to 70°C



Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB3524-20D	2.5G	SFP	1310/1550	20KM	-5~0	0~70	<-18	LC	DFB+PIN
EB5324-20D	2.5G	SFP	1550/1310	20KM	-5~0	0~70	<-18	LC	DFB+PIN
EB3524-40D	2.5G	SFP	1310/1550	40KM	-5~0	0~70	<-19	LC	DFB+PIN
EB5324-40D	2.5G	SFP	1550/1310	40KM	-5~0	0~70	<-19	LC	DFB+PIN
EB4524-80D	2.5G	SFP	1490/1550	80KM	0~5	0~70	<-24	LC	DFB+APD
EB5424-80D	2.5G	SFP	1550/1490	80KM	0~5	0~70	<-24	LC	DFB+APD

2.5G SFP Dual Fiber Transceiver



Features

- Data-rate of 2.67Gbps operation
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital diagnostic monitoring: internal calibration or external calibration
- Compatible with SONET OC-24-LR-1
- Compatible with ROHS
- +3.3V single power supply
- Commercial case temperature range: 0°C to 70°C



Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP8524-03D	2.5G	SFP	850	300M	-10~-4	0~70	<-18	LC	VCSEL+PIN
ESP3124-2D	2.5G	SFP	1310	2KM	-9~-3	0~70	<-18	LC	FP+PIN
ESP3124-20D	2.5G	SFP	1310	20KM	-5~0	0~70	<-18	LC	DFB+PIN
ESP3124-40D	2.5G	SFP	1310	40KM	-5~0	0~70	<-19	LC	DFB+PIN
ESP5524-80D	2.5G	SFP	1550	80KM	0~5	0~70	<-26	LC	DFB+APD
ESP5524-C0D	2.5G	SFP	1550	120KM	1~6	0~70	<-30	LC	DFB+APD

Applications 22:



Item No	ETU PN	Description
①	ESP3124-20D	2.5G SFP 1310nm 20KM
②	Patch Cord	LC/UPC-LC/UPC SM DX OS2

1.25G SFP Single Fiber Transceiver



Features

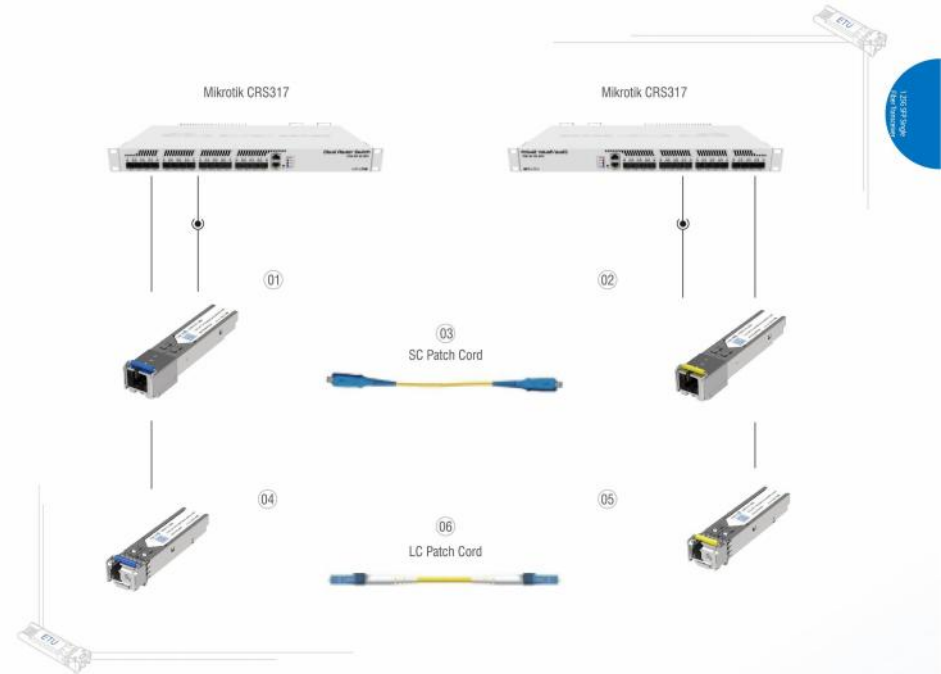
- Dual data-rate of 1.25Gbps/1.063Gbps operation
- Compliant with SFP MSA and SFF-8472 with simplex LC receptacle
- Digital diagnostic monitoring: internal calibration or external calibration
- Compatible with SONET OC-24-LR-1
- Compatible with ROHS
- +3.3V single power supply
- Commercial case temperature range: 0°C to 70°C

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB3512-3D	1.25G	SFP	1310/1550	3KM	-10~-4	0-70	<-20	LC	FP+PIN
EB5312-3D	1.25G	SFP	1550/1310	3KM	-10~-4	0-70	<-20	LC	FP+PIN
EB3512-10D	1.25G	SFP	1310/1550	10KM	-9~-3	0-70	<-22	LC	FP+PIN
EB5312-10D	1.25G	SFP	1550/1310	10KM	-9~-3	0-70	<-22	LC	DFB+PIN
EB3512-20D	1.25G	SFP	1310/1550	20KM	-9~-3	0-70	<-22	LC	FP+PIN
EB5312-20D	1.25G	SFP	1550/1310	20KM	-9~-3	0-70	<-22	LC	DFB+PIN
EB3412-20D	1.25G	SFP	1310/1490	20KM	-9~-3	0-70	<-22	LC	FP+PIN
EB4312-20D	1.25G	SFP	1490/1310	20KM	-9~-3	0-70	<-22	LC	DFB+PIN
EB3512-40D	1.25G	SFP	1310/1550	40KM	-5~0	0-70	<-24	LC	DFB+PIN
EB5312-40D	1.25G	SFP	1550/1310	40KM	-5~0	0-70	<-24	LC	DFB+PIN
EB3412-40D	1.25G	SFP	1310/1490	40KM	-5~0	0-70	<-24	LC	DFB+PIN
EB4312-40D	1.25G	SFP	1490/1310	40KM	-5~0	0-70	<-24	LC	DFB+PIN
EB3512-60D	1.25G	SFP	1310/1550	60KM	0~5	0-70	<-26	LC	DFB+PIN
EB5312-60D	1.25G	SFP	1550/1310	60KM	0~5	0-70	<-26	LC	DFB+PIN
EB5412-80D	1.25G	SFP	1550/1490	80KM	0~5	0-70	<-26	LC	DFB+PIN
EB4512-80D	1.25G	SFP	1490/1550	80KM	0~5	0-70	<-26	LC	DFB+PIN
EB5412-C0D	1.25G	SFP	1550/1490	120KM	1~5	0-70	<-32	LC	DFB+APD
EB4512-C0D	1.25G	SFP	1490/1550	120KM	1~5	0-70	<-32	LC	DFB+APD
EB5412-G0D	1.25G	SFP	1550/1490	160KM	1~6	0-70	<-33	LC	DFB+APD
EB4512-G0D	1.25G	SFP	1490/1550	160KM	1~6	0-70	<-33	LC	DFB+APD
EB3512-3D-S	1.25G	SFP	1310/1550	3KM	-10~-4	0-70	<-20	SC	FP+PIN
EB5312-3D-S	1.25G	SFP	1550/1310	3KM	-10~-4	0-70	<-20	SC	FP+PIN
EB3512-20D-S	1.25G	SFP	1310/1550	20KM	-9~-3	0-70	<-22	SC	FP+PIN
EB5312-20D-S	1.25G	SFP	1550/1310	20KM	-9~-3	0-70	<-22	SC	DFB+PIN
EB3512-40D-S	1.25G	SFP	1310/1550	40KM	-5~0	0-70	<-24	SC	DFB+PIN
EB5312-40D-S	1.25G	SFP	1550/1310	40KM	-5~0	0-70	<-24	SC	DFB+PIN
EB4512-80D-S	1.25G	SFP	1490/1550	80KM	0~5	0-70	<-26	SC	DFB+PIN
EB5412-80D-S	1.25G	SFP	1550/1490	80KM	0~5	0-70	<-26	SC	DFB+PIN

1.25G SFP Single Fiber Transceiver

Applications 23:



Item No	ETU PN	Description
01	EB3512-3D-S	1.25G BIDI TX1310nm RX1550nm SC 3KM DDM
02	EB5312-3D-S	1.25G BIDI TX1550nm RX1310nm SC 3KM DDM
03	Patch Cord	SC/UPC-SC/UPC SM SX OS2
04	EB3512-3D	1.25G BIDI TX1310nm RX1550nm LC 3KM DDM
05	EB5312-3D	1.25G BIDI TX1550nm RX1310nm LC 3KM DDM
06	Patch Cord	LC/UPC-LC/UPC SM SX OS2

1.25G SFP Dual Fiber Transceiver



Features

- ❖ Compliant with specifications for IEEE802.3Z
- ❖ Multi-source package with duplex LC connector
- ❖ Eye safety designed to meet laser class1
- ❖ Compliant with IEC60825-1
- ❖ Single +3.3V power supply
- ❖ Hot pluggable
- ❖ Monitoring interface compliant with SFF-8472
- ❖ Compliant with bellcore TA-NWT-000983



1.25G & 2.5G CWDM SFP Transceiver



Features

- ❖ Data-rate of 1.25Gbps/2.67Gbps operation
- ❖ Up to 120km on 9/125μm SMF
- ❖ Standard serial ID information compliant with SFP MSA
- ❖ SFP MSA package with duplex LC connector
- ❖ Digital diagnostic monitor interface
- ❖ +3.3V single power supply
- ❖ Wide operating temperature range
- ❖ ROHS compliant



Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP8512-05D	1.25G	SFP	850	550M	-10~-4	0~70	<-18	LC	VCSEL+PIN
ESP3112-2D	1.25G	SFP	1310	2KM	-10~-4	0~70	<-20	LC	FP+PIN
ESP3112-10D	1.25G	SFP	1310	10KM	-9~-3	0~70	<-22	LC	FP+PIN
ESP3112-20D	1.25G	SFP	1310	20KM	-9~-3	0~70	<-22	LC	FP+PIN
ESP3112-40D	1.25G	SFP	1310	40KM	-5~0	0~70	<-24	LC	DFB+PIN
ESP5512-40D	1.25G	SFP	1550	40KM	-5~0	0~70	<-24	LC	DFB+PIN
ESP5512-80D	1.25G	SFP	1550	80KM	0~5	0~70	<-26	LC	DFB+PIN
ESP5512-C0D	1.25G	SFP	1550	120KM	1~5	0~70	<-32	LC	DFB+APD
ESP5512-G0D	1.25G	SFP	1550	160KM	0~5	0~70	<-34	LC	DFB+APD

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESCxx12-40D	1.25G	SFP	1270~1450	40KM	-5~0	0~70	<-24	LC	CWDM+PIN
ESCxx12-80D	1.25G	SFP	1470~1610	80KM	0~5	0~70	<-26	LC	CWDM+PIN
ESCxx12-C0D	1.25G	SFP	1470~1610	120KM	1~5	0~70	<-32	LC	CWDM+APD
ESCxx24-40D	2.5G	SFP	1470~1610	40KM	-5~0	0~70	<-24	LC	CWDM+PIN
ESCxx24-80D	2.5G	SFP	1470~1610	80KM	0~5	0~70	<-26	LC	CWDM+APD

155M SFP Single Fiber Transceiver



Features

- ◆ Up to 155Mbps data-rate
- ◆ Compliant with SFP MSA and SFF-8472 with simplex LC receptacle
- ◆ Digital diagnostic monitoring: internal calibration or external calibration
- ◆ Compatible with ROHS
- ◆ +3.3V single power supply
- ◆ Commercial case temperature range: 0°C to 70°C

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
EB3503-3D-S	155M	SFP	1310/1550	3KM	-14~-8	0~70	<-28	SC	FP+PIN
EB5303-3D-S	155M	SFP	1550/1310	3KM	-14~-8	0~70	<-28	SC	FP+PIN
EB3503-20D-S	155M	SFP	1310/1550	20KM	-14~-8	0~70	<-32	SC	FP+PIN
EB5303-20D-S	155M	SFP	1550/1310	20KM	-14~-8	0~70	<-32	SC	FP+PIN
EB3503-40D-S	155M	SFP	1310/1550	40KM	-5~0	0~70	<-32	SC	FP+PIN
EB5303-40D-S	155M	SFP	1550/1310	40KM	-5~0	0~70	<-32	SC	DFB+PIN
EB3503-80D-S	155M	SFP	1310/1550	80KM	-5~0	0~70	<-32	SC	DFB+PIN
EB5303-80D-S	155M	SFP	1550/1310	80KM	-5~0	0~70	<-32	SC	DFB+PIN
EB3503-3D	155M	SFP	1310/1550	3KM	-14~-8	0~70	<-28	LC	FP+PIN
EB5303-3D	155M	SFP	1550/1310	3KM	-14~-8	0~70	<-28	LC	FP+PIN
EB3503-10D	155M	SFP	1310/1550	10KM	-15~-8	0~70	<-32	LC	FP+PIN
EB5303-10D	155M	SFP	1550/1310	10KM	-15~-8	0~70	<-32	LC	FP+PIN
EB3503-20D	155M	SFP	1310/1550	20KM	-15~-8	0~70	<-32	LC	FP+PIN
EB5303-20D	155M	SFP	1550/1310	20KM	-15~-8	0~70	<-32	LC	FP+PIN
EB3403-20D	155M	SFP	1310/1490	20KM	-15~-8	0~70	<-32	LC	FP+PIN
EB4303-20D	155M	SFP	1490/1310	20KM	-15~-8	0~70	<-32	LC	DFB+PIN
EB3503-40D	155M	SFP	1310/1550	40KM	-5~0	0~70	<-32	LC	FP+PIN
EB5303-40D	155M	SFP	1550/1310	40KM	-5~0	0~70	<-32	LC	DFB+PIN
EB3403-40D	155M	SFP	1310/1490	40KM	-5~0	0~70	<-32	LC	FP+PIN
EB4303-40D	155M	SFP	1490/1310	40KM	-5~0	0~70	<-32	LC	DFB+PIN
EB4503-80D	155M	SFP	1490/1550	80KM	-5~0	0~70	<-32	LC	DFB+PIN
EB5403-80D	155M	SFP	1550/1490	80KM	-5~0	0~70	<-32	LC	DFB+PIN
EB4503-C0D	155M	SFP	1490/1550	120KM	0~5	0~70	<-32	LC	DFB+APD
EB5403-C0D	155M	SFP	1550/1490	120KM	0~5	0~70	<-32	LC	DFB+APD

155M SFP Dual Fiber Transceiver



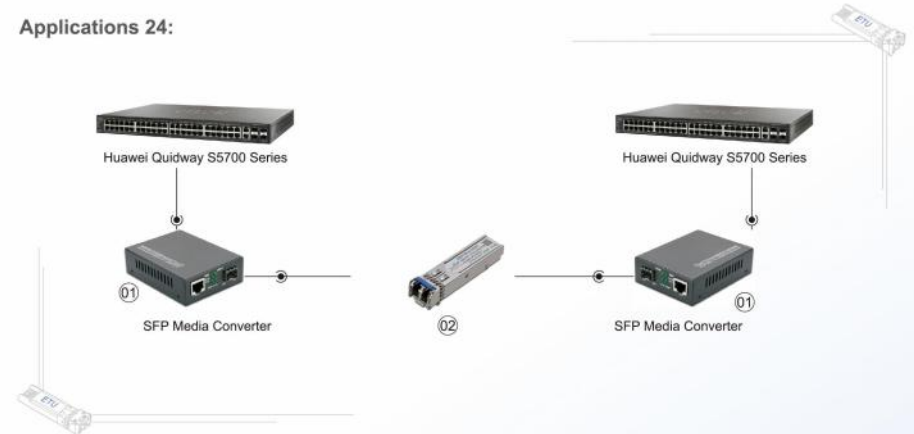
Features

- ◆ Up to 155Mbps data-rate
- ◆ Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- ◆ Digital diagnostic monitoring: internal calibration or external calibration
- ◆ Compatible with ROHS
- ◆ +3.3V single power supply
- ◆ Commercial case temperature range: 0°C to 70°C

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Sensitivity	Interface	Source
ESP3103-2D	155M	SFP	1310	2KM	-20~-10	0~70	<-32	LC	FP+PIN
ESP3103-20D	155M	SFP	1310	20KM	-15~-8	0~70	<-32	LC	FP+PIN
ESP3103-40D	155M	SFP	1310	40KM	-5~0	0~70	<-32	LC	DFB+PIN
ESP5503-80D	155M	SFP	1550	80KM	-2~3	0~70	<-34	LC	DFB+PIN
ESP5503-C0D	155M	SFP	1550	120KM	0~5	0~70	<-32	LC	DFB+PIN
ESP5503-G0D	155M	SFP	1550	160KM	1~5	0~70	<-34	LC	DFB+APD

Applications 24:



Item No	ETU PN	Description
①	EM-100-SSXX	10/100M SFP Media Converter
②	ESP3103-20D	155M SFP LX 1310nm 20km

EPON/GPON Transceiver



Features

- Single fiber bi-directional data links symmetric 1.25Gbps application/ 2.488Gbps Tx and 1.244Gbps Rx
- ROHS 6 compliance
- 1490nm continuous-mode DFB laser transmitter and 1310nm burst-mode APD-TIA receiver
- Low EMI and excellent ESD protection

Coding Tool



Hardware:

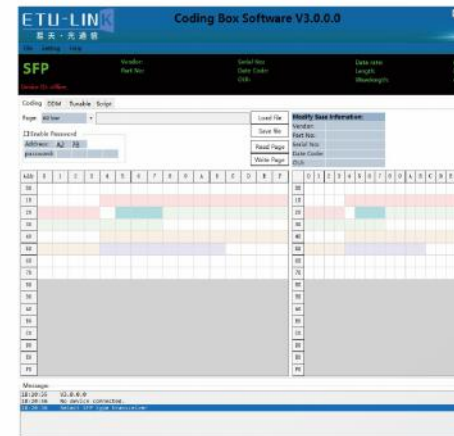
- Name: Coding Box
- Interface Type: USB Type C (USB power supply)
- Work Voltage: +5V
- Maximum Power: 3.5W
- Support Module Type: SFP, SFP+, SFP28, SFP56, XFP, QSFP+, QSFP28, QSFP DD

Software:

- Software Name: Coding Box Software
- Operating Environment: Windows XP/7/8/8.1/10 32/64bit

Product Information

Model No.	Data Rate	Package	Wavelength(nm)	Distance	Output Power	Temp.(°C)	Interface	Source
EEP4312-20D-1	1.25G/1.25G	EPON OLT PX20+	Tx 1490nm 1.25G, Rx 1310nm 1.25G	20KM	3.5~4.5	0~70	SC	DFB+APD
EEP4312-20D-2	1.25G/1.25G	EPON OLT PX20++	Tx 1490nm 1.25G, Rx 1310nm 1.25G	20KM	5.5~6.5	0~70	SC	DFB+APD
EEP4312-20D-3	1.25G/1.25G	EPON OLT PX20+++ Enhanced (7db)	Tx 1490nm 1.25G, Rx 1310nm 1.25G	20KM	6~7	0~70	SC	DFB+APD
EEP3412-20D-1	1.25G/1.25G	EPON ONU PX20+	Tx 1310nm 1.25G, Rx 1490nm 1.25G	20KM	0~4	0~70	SC	DFB+APD
EGP4324-20D-1	2.5G/1.25G	GPON OLT B+	TX 1490nm 2.488Gbps, RX 1310nm 1.244Gbps	20KM	3~4	0~70	SC	DFB+APD
EGP4324-20D-2	2.5G/1.25G	GPON OLT C+	TX 1490nm 2.488Gbps, RX 1310nm 1.244Gbps	20KM	4.5~5.5	0~70	SC	DFB+APD
EGP4324-20D-3	2.5G/1.25G	GPON OLT C++	TX 1490nm 2.488Gbps, RX 1310nm 1.244Gbps	20KM	5.5~6.5	0~70	SC	DFB+APD
EGP3424-20D-1	1.25G/2.5G	GPON ONU B+	Tx 1310nm 1.25G, Rx 1490nm 2.488G	20KM	0.5~5	0~70	SC	DFB+APD



Patch Cord Details



Features

- ◆ Low insertion loss and back reflection loss
- ◆ Good durability
- ◆ Good exchange ability
- ◆ High temperature stability
- ◆ Standard: telcordia GR-326-CORE
- ◆ Compact design
- ◆ IEC,JIS,TELCORDIA-326 compliance



Features

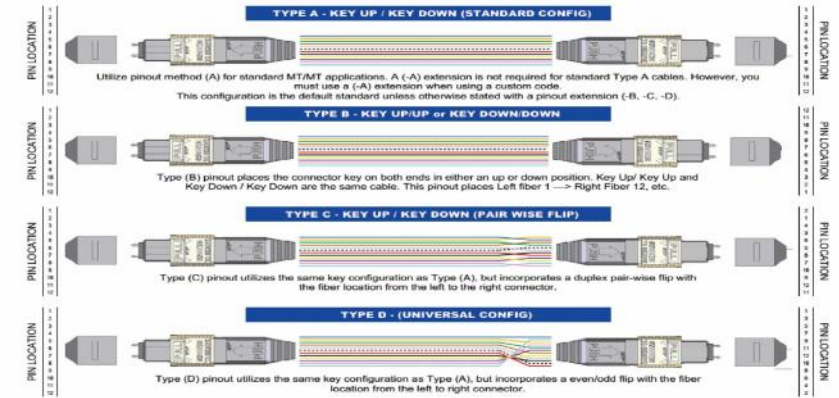
- ◆ MPO connector complied with IEC-61754-7 A quick-to-deploy
- ◆ Scalable solution
- ◆ High compatibility, flexibility & system
- ◆ Performance lower installation cost
- ◆ Optimized performance - Elite MPO and discrete premium connector
- ◆ Support 40GBASE-SR4 in applicable parallel optics networks
- ◆ Compliant to IEC-61754-7 and TIA-604-5(FOCIS-5) standard

Application

- ◆ SAN (Storage Area Network) data center LAN
- ◆ LAN/SAN switch equipment distribution
- ◆ Area(EDA) emerging 40G and 100G protocols

Patch Cord Order Information

Connector-1	Polishing	Connector-2	Polishing	Cable Type	Length	Cable Diamete	Fiber Cont	Remark
SC	APC	LC	PC	OS2	5M	2.0MM	Duplex	LSZH
FC,SC	PC,UPC	FC,SC	PC,UPC	OM1 62.5/125	0.5M	0.9MM	Simplex	Colors
LC,ST	APC	LC,ST	APC	OM2 50/125	1M,2M	1.8MM	Duplex	Armored
MU,MTRJ		MU,MTRJ	DIN	OM3 (10G)	3M,4M	2.0MM	4,6,8 Counts	Waterproof
E2000,MPO		E2000,MPO		OS1	5M...	3.0MM	12 Counts...	LSZH
SMA,DIN		SMA,DIN		OS2 9/12	100M...	Others	48 Counts...	PVC
				G657A/B/D	500M...			OFNR
				G655	1000M...			OFNP



Pigtail Details



Features

- ◆ Insert loss ≤ 0.2dB
- ◆ Return loss: PC/UPC > 35dB APC > 60dB
- ◆ Temperature range:-40~+55°C
- ◆ 0.9mm-2.0mm-3.0mm

Pigtail Order Information

Connector-1	Polishing	Cable Type	Length	Cable Diamete	Fiber Cont	Remark
SC	APC	OS2	0.5M	0.9MM	Simplex	LSZH
FC,SC	PC,UPC	OM1 62.5/125	0.5M	0.9MM	Simplex	Colors
LC,ST	APC	OM2 50/125	1M,2M	1.8MM	4,6,8 Counts	Armored
MU,MTRJ		OM3 10G	3M	2.0MM	12 Counts...	Waterproof
E2000,MPO		OS1		3.0MM	48 Counts...	LSZH
SMA,DIN		OS2 9/125		Others		PVC
		G657A1/2/G652D				OFNR

Adapter Details



Features

- Low insertion loss high return loss
- High-precision alignment
- Accord with the standard of the telcordia ANSI,-TIA/EIA,NTT,JIS
- Optional for the shell material or sleeve material
- Compatible with NTT-SC standard

Adapter Order Information

Connector-1	Polishing	Color	Material	Sleeve Material	Channels	Remark
SC		Blue	Material	Zirconia Ceramic	Simplex	Dust Cap Color
FC,SC		Blue	Plastic	Zirconia Ceramic	Simplex	Black
LC,ST	PC	Beige	Plastic	Phosphor Bronze	Duplex	Red
MU,MTRJ	PC,UPC	Green	Metal			Blue
E2000	APC					Beige
						Green

Applications 25:



10G SFP Media Converter without SFP Module



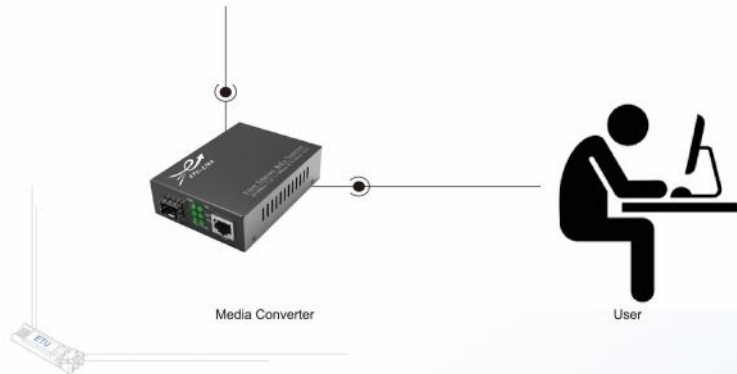
Features

- 10G SFP+ to UTP
- Transparent Transport and very low delay
- Up to 100km
- External power
- supply Support Loopback test function
- Economic In-band Management function
- Support hot plugging
- Support 2U Rack (16 channel) and standalone use
- Full State Led display
- UTP cable length detection (only RJ45 interface)

Applications 26:



Cisco N9K-C9348GC-FXP



Item No	ETU PN	Description
01	EM-10000-SSXX	10G SFP+ Media Converter without SFP Module

Media Converter



Features

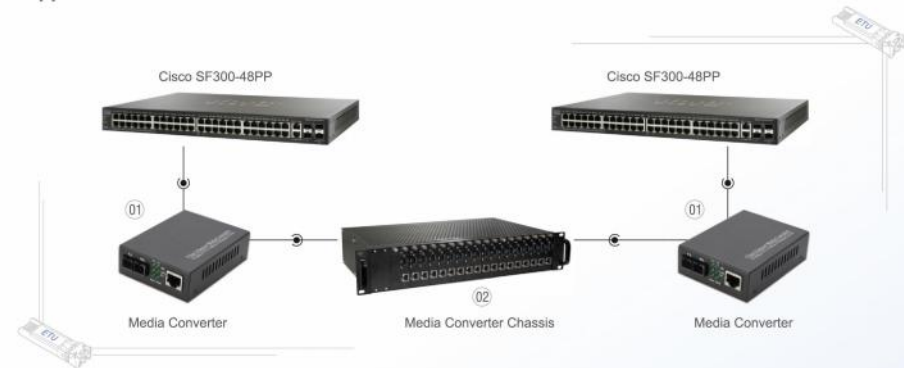
- ▶ This product supports IEEE802.3 10 base-T
- ▶ Standard/IEEE 802.3u 100Base-TX/FX
- ▶ Standard/IEEE 802.3z 1000Base-TX/FX standard, as well as full duplex and half duplex mode.

Media Converter	
Model	Description
10/100Mbps Dual Fiber	
EM-100-M2	10/100M Dual Fiber MM Media Converter,1310nm,2KM SC Connector
EM-100-S20	10/100M Dual Fiber SM Media Converter,1310nm,20KM SC Connector
EM-100-S40	10/100M Dual Fiber SM Media Converter,1310nm,40KM SC Connector
EM-100-S60	10/100M Dual Fiber SM Media Converter,1550nm,60KM SC Connector
EM-100-S80	10/100M Dual Fiber SM Media Converter,1550nm,80KM SC Connector
10/100Mbps Single Fiber	
EM-100-BS20	10/100M Single Fiber SM Media Converter,1310/1550nm,20KM SC Connector
EM-100-BS40	10/100M Single Fiber SM Media Converter,1310/1550nm,40KM SC Connector
EM-100-BS60	10/100M Single Fiber SM Media Converter,1490/1550nm,60KM SC Connector
EM-100-BS80	10/100M Single Fiber SM Media Converter,1490/1550nm,80KM SC Connector
1000Mbps Dual Fiber	
EM-1000-M05	1000M Dual Fiber MM Media Converter,850nm 550M SC Connector
EM-1000-S20	1000M Dual Fiber SM Media Converter,1310nm,20KM SC Connector
1000Mbps Single Fiber	
EM-1000-BS20	1000M Single Fiber SM Media Converter,1310/1550nm,20KM SC Connector
EM-1000-BS20	1000M Single Fiber SM Media Converter,1550/1310nm,20KM SC Connector

Media Converter

10/100/1000Mbps Dual Fiber	
EM-1100-M05	10/100/1000M Dual Fiber MM Media Converter,850nm,550M SC Connector
EM-1100-M2	10/100/1000M Dual Fiber MM Media Converter,1310nm,2KM SC Connector
EM-1100-S20	10/100/1000M Dual Fiber SM Media Converter,1310nm,20KM SC Connector
EM-1100-S40	10/100/1000M Dual Fiber SM Media Converter,1310nm,40KM SC Connector
EM-1100-S60	10/100/1000M Dual Fiber SM Media Converter,1550nm,60KM SC Connector
EM-1100-S80	10/100/1000M Dual Fiber SM Media Converter,1550nm,80KM SC Connector
10/100/1000Mbps Single Fiber	
EM-1100-BS20	10/100/1000M Single Fiber SM Media Converter,1310/1550nm,20KM SC Connector
EM-1100-BS40	10/100/1000M Single Fiber SM Media Converter,1310/1550nm,40KM SC Connector
EM-1100-BS60	10/100/1000M Single Fiber SM Media Converter,1490/1550nm,60KM SC Connector
EM-1100-BS60	10/100/1000M Single Fiber SM Media Converter,1550/1490nm,60KM SC Connector
SFP Media Converter	
EM-100-SSXX	10/100Mbps SFP Media Converter without SFP Module
EM-1100-SSXX	10/100/1000Mbps SFP Media Converter without SFP Module
10G SFP+ Media Converter	
EM-11100-SSXX	10G SFP+ Media Converter without SFP Module

Applications 27:



Item No	ETU PN	Description
①	EM-1100-S20	10/100/1000M Media Converter 1310nm 20km
②	Media Converter Chassis	Media Converter Chassis

Regular Product

Abbreviation	ETU PN	Description
RJ45	ES-T2-R	10/100/1000M SFP Copper-T RJ45 100M
10G RJ45	ES-T5-R	10G SFP+ Copper-T RJ45 30M
SX	ESP8512-05D	1.25G SFP 850nm 550M LC DDM
LX	ESP3112-10D	1.25G SFP 1310nm 10KM LC DDM
	ESP3112-20D	1.25G SFP 1310nm 20KM LC DDM
	ESP3112-40D	1.25G SFP 1310nm 40KM LC DDM
EX	ESP5512-40D	1.25G SFP 1550nm 40KM LC DDM
	ESP5512-80D	1.25G SFP 1550nm 80KM LC DDM
SR	ESP85X-03DI	10G SFP+ 850nm 300M LC DDM
LR	ESP31X-10D	10G SFP+ 1310nm 10KM LC DDM
	ESP31X-20D	10G SFP+ 1310nm 20KM LC DDM
ER	ESP31X-40DI	10G SFP+ 1310nm 40KM LC DDM
	ESP55X-40DI	10G SFP+ 1550nm 40KM LC DDM
ZR	ESP55X-80DI	10G SFP+ 1550nm 80KM LC DDM
QSFP+ SR4	EQP854X-01D	40G QSFP+ 850nm 100M MPO DDM
QSFP+ LR4	EQP314X-10D-M	40G QSFP+ 1310nm 10KM LC DDM
QSFP+ ER4	EQP294X-40DI	40G QSFP+ 1310nm 40KM LC DDM
QSFP+ ZR4	EQP294X-80DI	40G QSFP+ 1310nm 80KM LC DDM
QSFP28 SR4	EQP85Y-01D	100G QSFP28 850nm 100M MPO DDM
QSFP28 LR4	EQP29Y-10D	100G QSFP28 1310nm 10KM LC DDM
QSFP28 ER4	EQP29Y-40DI-D	100G QSFP28 1310nm 40KM LC DDM
QSFP28 ZR4	EQP29Y-80DI	100G QSFP28 1310nm 80KM LC DDM

Proper Nouns

SM:	Single Mode	MM:	Multimode
SX:	Simplex	DX:	Duplex
IL:	Insertion Loss	RL:	Return Loss
MSA:	Multi-Source Agreements	CDR:	Clock Data Recovery
DDM:	Digital Diagnostic Monitoring	WDM:	Wavelength Division Multiplexing
CWDM:	Coarse Wavelength Division Multiplexer	DWDM:	Dense Wavelength Division Multiplexer

Product Accessories



SR:



LR:



BD SC:



1.25G Dual Fiber :



10G BD:



1.25G BD:



Regular Product

