



## SFP Transceivers

### Product Overview

Edge-Core Small Form Factor Pluggable (SFP) transceivers family are specifically designed for the high performance integrated duplex data link over Signal-mode/multi-mode optical fiber. These transceivers are compliant with the SFP Multi source Agreement (MSA). With the hot-plug ability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

### Key Features and Benefits

#### Varied Distance and Speed

Edge-Core's SFP transceivers provides the various distance from 550m to 80km with Gigabit and Fast Ethernet speed. The completed properties can meet most demanded.

#### Compacted Size Designed

Edge-Core's SFP transceivers compacted size also designed for the high port density fiber switch.

#### Standard Compliance

- Class 1 laser safety standard IEC 825 compliant
- IEEE 802.3 1000BASE-SX compliant
- Low power dissipation
- IEEE 802.3z, SFP MSA compliant
- Supply standard voltage 3.3v

#### Bi-direction SFP to Double Usage Bandwidth

Edge-Core's Bi-direction SFP transceivers can support transmission and received data in single fiber. It can easy to double the bandwidth from dual fiber to single without any reconstruction.

# ES3528M-SFP Product Specifications



## Features

### Safety

- Laser Class 1 21 CFR 1040.10 and 1040.11 compliant
- CSA
- TUV

### Dimensions

Dimensions (H x W x D): 8.6 x 13.4 x 56 mm

### Environmental Specifications

- Storage temperature: -40°C~+85°C
- Storage Relative Humidity : 5~ 95%
- Operating temperature: 0°C~+70°C

### Warranty

Limited lifetime warranty

## Edge-Core SFP Transceiver Family

### 1000Base-X SFP Transceivers

Model name	Wave length (nm)	Fiber Type	Distance	Transmit Power (dBm)	Receiver Sensitivity (dBm)	Link Budget (dBm)
ET4201-SX	850	MMF	550m	-9.5~-4	-17	7.5
ET4201-LX	1310	SMF	10km	-9.5~-3	-20	10.5
ET4201-LHX	1310	SMF	40km	-2~-3	-23	21
ET4201-ZX	1550	SMF	80km	0~5	-24	24

### 100Base-X SFP Transceivers

Model name	Wave length (nm)	Fiber Type	Distance	Transmit Power (dBm)	Receiver Sensitivity (dBm)	Link Budget (dBm)
ET3201-FXP	1310	MMF	2km	-20~-14	-32	12
ET3201-FX20	1310	SMF	20km	-15~-8	-34	19
ET3201-FX60	1310	SMF	60km	-5~0	-35	30

### 1000Base-X Bi-direction SFP Transceivers

Model name	Wave length (nm)	Fiber Type	Distance	Transmit Power (dBm)	Receiver Sensitivity (dBm)	Link Budget (dBm)
ET4203-BX10	Tx:1310 Rx:1490	SMF	10km	-9~-3	-20	11
ET4203-BX10D	Tx:1490 Rx:1310	SMF	10km	-9~-3	-20	11
ET4203-BX20	Tx:1310 Rx:1490	SMF	20km	-7~-2	-22	15
ET4203-BX20D	Tx:1490 Rx:1310	SMF	20km	-7~-2	-22	15



## Optional Accessory

### 1000Base-X Bi-direction SFP Transceivers

Model name	Wave length (nm)	Fiber Type	Distance	Transmit Power (dBm)	Receiver Sensitivity (dBm)	Link Budget (dBm)
ET4204-BX10	Tx:1310 Rx:1550	SMF	10km	-9~-3	-20	11
ET4204-BX10D	Tx:1550 Rx:1310	SMF	10km	-9~-3	-20	11

### 100Base-X Bi-direction SFP Transceivers

Model name	Wave length (nm)	Fiber Type	Distance	Transmit Power (dBm)	Receiver Sensitivity (dBm)	Link Budget (dBm)
ET3203-BX10	Tx:1310 Rx:1550	SMF	10km	-14~-8	-28	14
ET3203-BX10D	Tx:1550 Rx:1310	SMF	10km	-14~-8	-28	14
ET3203-BX20	Tx:1310 Rx:1550	SMF	20km	-14~-8	-32	18
ET3203-BX20D	Tx:1550 Rx:1310	SMF	20km	-14~-8	-32	18

### 1000Base-X SFP Transceiver to RJ45

Model name	Distance	Connect Type
ET4201-RJ45	100m	RJ45