

SFP, SFP +,  
CWDM WAVELENGTHS,  
10G SFP, XFP & GBICS



# SFP PRODUCTS





## MSA Compliant SFP Simplex LC

Description	Part Number
<b>100BASE-FX/OC-3</b>	
1310nm TX/1550nm RX Multimode (SC) 2km	TN-SFP-OC3MB1
1550nm TX/1310nm RX Multimode (SC) 2km	TN-SFP-OC3MB2
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-OC3SB21
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-OC3SB22
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC3SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC3SB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-OC3SB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-OC3SB62
1310nm TX/1550nm RX Single Mode 80km	TN-SFP-OC3SB81
1550nm TX/1310nm RX Single Mode 80km	TN-SFP-OC3SB82
1310nm TX/1550nm RX Single Mode 120km	TN-SFP-OC3SB121
1550nm TX/1310nm RX Single Mode 120km	TN-SFP-OC3SB122
1310nm TX/1550nm RX Single Mode 160km	TN-SFP-OC3SB161
1550nm TX/1310nm RX Single Mode 160km	TN-SFP-OC3SB162
1310nm TX/1550nm RX Single Mode 200km	TN-SFP-OC3SB201
1550nm TX/1310nm RX Single Mode 200km	TN-SFP-OC3SB202
<b>OC-12/STM-4</b>	
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC12SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC12SB42
<b>1000BASE-BX</b>	
1310nm TX/1490nm RX Single Mode 10km (without DMI)	TN-SFP-EBXU
1490nm TX/1310nm RX Single Mode 10km (without DMI)	TN-SFP-EBXD
1310nm TX/1490nm RX Single Mode 10km	TN-SFP-BXU
1490nm TX/1310nm RX Single Mode 10km	TN-SFP-BXD
1310nm TX/1490nm RX Single Mode 20km	TN-SFP-BXU2
1490nm TX/1310nm RX Single Mode 20km	TN-SFP-BXD2
<b>1000BASE-SX</b>	
1310nm TX/1550nm RX Multimode 500m	TN-SFP-SXB1
1550nm TX/1310nm RX Multimode 500m	TN-SFP-SXB2
<b>1000BASE-LX</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11
▶▶ 1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11T
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12
▶▶ 1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12T
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21
▶▶ 1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21T
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22
▶▶ 1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22T
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-LXB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-LXB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-LXB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-LXB62
1510nm TX/1590nm RX Single Mode 80km	TN-SFP-LXB81
1590nm TX/1510nm RX Single Mode 80km	TN-SFP-LXB82
1510nm TX/1590nm RX Single Mode 120km	TN-SFP-LXB121
1590nm TX/1510nm RX Single Mode 120km	TN-SFP-LXB122
1510nm TX/1590nm RX Single Mode 160km	TN-SFP-LXB161
1590nm TX/1510nm RX Single Mode 160km	TN-SFP-LXB162
<b>100/1000Base-LX dual speed</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXMB11
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXMB12



## MSA Compliant SFP Duplex LC

Description	Part Number
<b>100BASE-FX/OC-3</b>	
1300nm Multimode 2km	TN-SFP-OC3M
▶▶ 1300nm Multimode 2km	TN-SFP-OC3MT
1310nm Single Mode 20km	TN-SFP-OC3S
▶▶ 1300nm Multimode 20km	TN-SFP-OC3ST
1310nm Single Mode 30km	TN-SFP-OC3S3
1310nm Single Mode 50km	TN-SFP-OC3S5
1550nm Single Mode 80km	TN-SFP-OC3S8
1550nm Single Mode 100km	TN-SFP-OC3S10
1550nm Single Mode 120km	TN-SFP-OC3S12
1550nm Single Mode 200km	TN-SFP-OC3S20
<b>OC-12/STM-4</b>	
1300nm Multimode 1km	TN-SFP-OC12M
1310nm Single Mode 20km	TN-SFP-OC12S
1310nm Single Mode 40km	TN-SFP-OC12S4
1550nm Single Mode 80km	TN-SFP-OC12S8
<b>1000BASE-SX</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m (without DMI)	TN-SFP-SX
850nm Multimode 62.5/125um: 220m 50/125um: 550m (with DMI)	TN-SFP-SXD
1300nm Ext. Multimode 50/125um: 2km	TN-SFP-ESX5
1300nm Ext. Multimode 62.5/125um: 2km	TN-SFP-ESX6
<b>1000BASE-LX</b>	
1310nm Single Mode 10km	TN-SFP-LX1
▶▶ 1310nm Single Mode 10km	TN-SFP-LX1T
1310nm Single Mode 10km (without DMI)	TN-SFP-ELX1
1310nm Single Mode 30km	TN-SFP-LX3
▶▶ 1310nm Single Mode 30km	TN-SFP-LX3T
1550nm Single Mode 50km	TN-SFP-LX5
1550nm Single Mode 80km	TN-SFP-LX8
1550nm Single Mode 120km	TN-SFP-LX12
1550nm Single Mode 160km	TN-SFP-LX16
1550nm Single Mode 200km	TN-SFP-LX20
<b>OC-48/STM-16/ Fibre Channel 1x/2x/4x/1000BASE-X</b>	
850nm Multimode 62.5: 150m 50um: 300m	TN-SFP-FC2XM
1310nm Single Mode 2km	TN-SFP-FC2XS2
1310nm Single Mode 15km	TN-SFP-FC2XS15
1310nm Single Mode 40km	TN-SFP-FC2XS40
<b>Fibre Channel 1x/2x/4x/1000BASE-X</b>	
850nm Multimode FC4: 150m/FC2:300m/FC1: 500m	TN-SFP-FC4XM
1310nm Single Mode 5km	TN-SFP-FC4XS5
1310nm Single Mode 10km	TN-SFP-FC4XS10
1310nm Single Mode 20km	TN-SFP-FC4XS20
1550nm Single Mode 40km	TN-SFP-FC4XS40
1550nm Single Mode 80km	TN-SFP-FC4XS80
<b>Copper SFP</b>	
100BASE-TX RJ-45, 100m	TN-SFP-TX
10/100/1000BASE-T SGMII RJ-45 100m	TN-SFP-T-MG

## MSA Compliant SFP CWDM Wavelengths



Description	Part Number
<b>100BASE-FX/OC-3</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-OC3S8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-OC3S16-Cxx
<b>OC-12/STM-4</b>	
▶ 18 wavelengths from 1270nm to 1610nm 20km	TN-SFP-OC12S-Cxx
<b>1000BASE-LX/Fibre Channel 1x</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 200km	TN-SFP-LX20-Cxx
<b>OC-48/STM-16/Fibre Channel</b>	
▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-OC48S-Cxx
<b>Fibre Channel 1x/2x/4x/1000BASE-X</b>	
▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-FC4XS-Cxx

## MSA Compliant 10G XFP CWDM Wavelengths

Description	Part Number
<b>10GBASE-LR/10G Fibre Channel CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 10km	TN-XFP-LR1-Cxx
14 wavelengths from 1270nm to 1370nm and 1470 to 1610nm 40km	TN-XFP-LR4-Cxx
8 wavelengths from 1470nm to 1610nm 70km	TN-XFP-LR7-Cxx

## MSA Compliant 10G XFP

Description	Part Number
<b>10GBASE-SR/10G Fibre Channel</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-SR
<b>10GBASE-LRM</b>	
1310nm Multimode 300m	TN-XFP-LRM
<b>10GBASE-LR/ER/ZR/10G Fibre Channel</b>	
1310nm Single Mode 10km	TN-XFP-LR1
▶▶ 1310nm Single Mode 10km	TN-XFP-LR1-T
1310nm Single Mode 20km	TN-XFP-LR2
▶▶ 1310nm Single Mode 20km	TN-XFP-LR2-T
1310nm Single Mode 40km	TN-XFP-ER
1550nm Single Mode 80km	TN-XFP-ZR
1550nm Single Mode 100km	TN-XFP-LR10

## MSA Compliant 10G SFP+

Description	Part Number
<b>10GBASE-SR</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-10GSFP-SR
<b>10GBASE-LR/ER</b>	
1310nm Single Mode 10km	TN-10GSFP-LR1
1310nm Single Mode 20km	TN-10GSFP-LR2
1310nm Single Mode 40km	TN-10GSFP-LR4
1550nm Single Mode 70km	TN-10GSFP-LR7

## MSA Compliant 10G SFP+



Description	Part Number
<b>10GBASE-BX</b>	
1270nm TX / 1330nm RX Single Mode 10km	TN-10GSFP-LRB11
1330nm TX / 1270nm RX Single Mode 10km	TN-10GSFP-LRB12
1270nm TX / 1330nm RX Single Mode 20km	TN-10GSFP-LRB21
1330nm TX / 1270nm RX Single Mode 20km	TN-10GSFP-LRB22
1270nm TX / 1330nm RX Single Mode 40km	TN-10GSFP-LRB41
1330nm TX / 1270nm RX Single Mode 40km	TN-10GSFP-LRB42
1270nm TX / 1330nm RX Single Mode 60km	TN-10GSFP-LRB61
1330nm TX / 1270nm RX Single Mode 60km	TN-10GSFP-LRB62

## GBICs

Description	Part Number
<b>1000BASE-SX</b>	
850nm Multimode (SC) 62.5/125um:220m 50/125um: 550m	TN-GB-MM5
<b>1000BASE-LX</b>	
1310nm Single Mode (SC) 10km	TN-GB-SM5
1310nm Single Mode (SC) 30km	TN-GB-SM53

## HP Compatible SFP

Description	Part Number
<b>1000BASE-SX</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-J4858C
<b>1000BASE-LX</b>	
1310nm Single Mode 20km	TN-J4859C
1550nm Single Mode 80km	TN-J4860C

## Cisco Compatible SFP

Description	Part Number
<b>100BASE-FX</b>	
1300nm Multimode 2km	TN-GLC-FE-100FX
▶▶ 1300nm Multimode 2km	TN-GLC-FE-100FX-RGD
1310nm Single Mode 20km	TN-GLC-FE-100LX
▶▶ 1310nm Single Mode 20km	TN-GLC-FE-100LX-RGD
1300nm Multimode 2km (works on Gigabit SFP port)	TN-GLC-GE-100FX
<b>100BASE-BX</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-U
▶▶ 1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-URGD
1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-D
▶▶ 1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-DRGD
1310nm TX/1550nm RX Single Mode 20km	TN-GLC-FE-100BX-U-20
1550nm TX/1310nm RX Single Mode 20km	TN-GLC-FE-100BX-D-20
1310nm TX/1550nm RX Single Mode 40km	TN-GLC-FE-100BX-U-40
1550nm TX/1310nm RX Single Mode 40km	TN-GLC-FE-100BX-D-40
1310nm TX/1550nm RX Single Mode 80km	TN-GLC-FE-100BX-U-80
1550nm TX/1310nm RX Single Mode 80km	TN-GLC-FE-100BX-D-80
1490nm TX/1550nm RX Single Mode 120km	TN-GLC-FE-100BX-U-12
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-FE-100BX-D-12

## Cisco Compatible SFP

Description	Part Number
<b>1000BASE-T/SX/LX</b>	
1000BASE-T RJ45, 100m	TN-GLC-T
1000BASE-SX 850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM
▶▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-SFP-GE-S
▶▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM-RGD
1000BASE-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K
▶▶ 1000BASE-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K-RGD
1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM
▶▶ 1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM-RGD
1000BASE-LX 1310nm Single Mode 40km	TN-GLC-LHX-SM
▶▶ 1000BASE-LX 1310nm Single Mode 10km	TN-SFP-GE-L
1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM
▶▶ 1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM-RGD
1000BASE-LX 1550nm Single Mode 120km	TN-GLC-ZX-SM-12
1000BASE-LX 1550nm Single Mode 150km	TN-GLC-ZX-SM-15
▶▶ 1000BASE-LX 1550nm Single Mode 80km	TN-SFP-GE-Z
<b>1000BASE-BX</b>	
1310nm TX/1490nm RX Single Mode 10km	TN-GLC-BX-U
1490nm TX/1310nm RX Single Mode 10km	TN-GLC-BX-D
1310nm TX/1490nm RX Single Mode 40km	TN-GLC-BX-U-40
1490nm TX/1310nm RX Single Mode 40km	TN-GLC-BX-D-40
1310nm TX/1490nm RX Single Mode 60km	TN-GLC-BX-U-60
1490nm TX/1310nm RX Single Mode 60km	TN-GLC-BX-D-60
1550nm TX/1490nm RX Single Mode 80km	TN-GLC-BX-U-80
1490nm TX/1550nm RX Single Mode 80km	TN-GLC-BX-D-80
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-BX-U-120
1490nm TX/15150nm RX Single Mode 120km	TN-GLC-BX-D-120

## Cisco Compatible SFP CWDM Wavelengths

Description	Part Number
<b>100BASE-X CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm	TN-CWDM-100LX-1xx0
<b>1000BASE-X CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm	TN-CWDM-SFP-1xx0

## Cisco Compatible X2

Description	Part Number
<b>X2</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-X2-10GB-SR
1310nm Multimode 220m	TN-X2-10GB-LRM
1310nm Single Mode 10km	TN-X2-10GB-LR
1550nm Single Mode 40km	TN-X2-10GB-ER
1550nm Single Mode 80km	TN-X2-10GB-ZR

## Cisco Compatible 10G CWDM

Description	Part Number
<b>10G CWDM X2</b>	
▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-X2-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-X2-1xx0-80
<b>10G CWDM XFP</b>	
▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-XFP-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-XFP-1xx0-80
<b>10G CWDM SFP+</b>	
▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-10G-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-10G-1xx0-80

## Cisco Compatible XFP

Description	Part Number
<b>XFP</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR
1310nm Single Mode 10km	TN-XFP-10GLR-OC192SR
1310nm Single Mode 20km	TN-XFP-10GLR2-OC192S
1550nm Single Mode 40km	TN-XFP-10GER-OC192IR
1550nm Single Mode 80km	TN-XFP-10GZR-OC192LR
1270nm TX/1330nm RX single mode 10km	TN-XFP-10G-U
1330nm TX/1270nm RX single mode 10km	TN-XFP-10G-D
1270nm TX/1330nm RX single mode 40km	TN-XFP-10G-U-40
1330nm TX/1270nm RX single mode 40km	TN-XFP-10G-D-40

## Cisco Compatible SFP+

Description	Part Number
<b>SFP+</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-SFP-10G-SR
1310nm Multimode 220m	TN-SFP-10G-LRM
1310nm Single Mode 10km	TN-SFP-10G-LR
1550nm Single Mode 40km	TN-SFP-10G-ER
1550nm Single Mode 80km	TN-SFP-10G-ZR
1270nm TX / 1330NM RX Single Mode 10km	TN-SFP-10G-U-10
1330nm TX / 1270NM RX Single Mode 10km	TN-SFP-10G-D-10
1270nm TX / 1330NM RX Single Mode 20km	TN-SFP-10G-U-20
1330nm TX / 1270NM RX Single Mode 20km	TN-SFP-10G-D-20
1270nm TX / 1330NM RX Single Mode 40km	TN-SFP-10G-U-40
1330nm TX / 1270NM RX Single Mode 40km	TN-SFP-10G-D-40

## HP Compatible SFP+

Description	Part Number
<b>10GBase-SR</b>	
850nm Multimode 62.5/125um:33m 50/125um: 300m	TN-J9150A

## Key

- ▶▶ *Extended Temperature -40° to +85°C*
- ▶ *Each step 20nm 10km*
- ▶ *Each step 20nm 40km*
- ▶ *Each step 20nm 80km*
- ▶ *Each step 20nm 160km*

## 100Base-FX / OC-3

Description	Part Number
<b>Duplex LC</b>	
1300nm Multimode 2km	TN-SFP-OC3M
▶ 1300nm Multimode 2km	TN-SFP-OC3MT
1310nm Single Mode 20km	TN-SFP-OC3S
▶ 1310nm Multimode 20km	TN-SFP-OC3ST
1310nm Single Mode 30km	TN-SFP-OC3S3
1310nm Single Mode 50km	TN-SFP-OC3S5
1550nm Single Mode 80km	TN-SFP-OC3S8
1550nm Single Mode 100km	TN-SFP-OC3S10
1550nm Single Mode 120km	TN-SFP-OC3S12
1550nm Single Mode 200km	TN-SFP-OC3S20
<b>Duplex LC Cisco Compatible</b>	
1300nm Multimode 2km	TN-GLC-FE-100FX
▶ 1300nm Multimode 2km	TN-GLC-FE-100FX-RGD
1310nm Single Mode 20km	TN-GLC-FE-100LX
▶ 1310nm Multimode 20km	TN-GLC-FE-100LX-RGD
1300nm Multimode 2km (works on Gigabit SFP port)	TN-GLC-GE-100FX
<b>Simplex LC</b>	
1310nm TX/1550nm RX Multimode (SC) 2km	TN-SFP-OC3MB1
1550nm TX/1310nm RX Multimode (SC) 2km	TN-SFP-OC3MB2
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-OC3SB21
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-OC3SB22
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC3SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC3SB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-OC3SB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-OC3SB62
1310nm TX/1550nm RX Single Mode 80km	TN-SFP-OC3SB81
1550nm TX/1310nm RX Single Mode 80km	TN-SFP-OC3SB82
1310nm TX/1550nm RX Single Mode 120km	TN-SFP-OC3SB121
1550nm TX/1310nm RX Single Mode 120km	TN-SFP-OC3SB122
1310nm TX/1550nm RX Single Mode 160km	TN-SFP-OC3SB161
1550nm TX/1310nm RX Single Mode 160km	TN-SFP-OC3SB162
1310nm TX/1550nm RX Single Mode 200km	TN-SFP-OC3SB201
1550nm TX/1310nm RX Single Mode 200km	TN-SFP-OC3SB202
<b>Simplex LC Cisco Compatible</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-U
▶ 1310nm TX/1550nm RX Single Mode 10km	TN-GLC-FE-100BX-URGD
1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-D
▶ 1550nm TX/1310nm RX Single Mode 10km	TN-GLC-FE-100BX-DRGD
1310nm TX/1550nm RX Single Mode 20km	TN-GLC-FE-100BX-U-20
1550nm TX/1310nm RX Single Mode 20km	TN-GLC-FE-100BX-D-20
1310nm TX/1550nm RX Single Mode 40km	TN-GLC-FE-100BX-U-40
1550nm TX/1310nm RX Single Mode 40km	TN-GLC-FE-100BX-D-40
1310nm TX/1550nm RX Single Mode 80km	TN-GLC-FE-100BX-U-80
1550nm TX/1310nm RX Single Mode 80km	TN-GLC-FE-100BX-D-80
1490nm TX/1550nm RX Single Mode 120km	TN-GLC-FE-100BX-U-12
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-FE-100BX-D-12
<b>Copper SFP</b>	
100Base-TX RJ-45 100m	TN-SFP-TX

## 100Base-FX / OC-3

Description	Part Number
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-OC3S8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-OC3S16-Cxx
<b>CWDM Cisco Compatible</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-CWDM-100LX-1xx0

## OC-12 / STM-4

Description	Part Number
<b>Duplex LC</b>	
1300nm Multimode 1km	TN-SFP-OC12M
1310nm Single Mode 20km	TN-SFP-OC12S
1310nm Single Mode 40km	TN-SFP-OC12S4
1550nm Single Mode 80km	TN-SFP-OC12S8
<b>Simplex LC</b>	
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-OC12SB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-OC12SB42
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 20km	TN-SFP-OC12S-Cxx

## Gigabit Ethernet

Description	Part Number
<b>1000BASE-SX Duplex LC</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m (without DMI)	TN-SFP-SX
850nm Multimode 62.5/125um: 220m 50/125um: 550m (with DMI)	TN-SFP-SXD
1300nm Ext. Multimode 50/125um: 2km	TN-SFP-ESX5
1300nm Ext. Multimode 62.5/125um: 2km	TN-SFP-ESX6
<b>1000BASE-SX Cisco Compatible</b>	
1000BASE-SX 850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-SFP-GE-S
▶ 1000BASE-SX 850nm MM 62.5/125um: 220m 50/125um: 550m	TN-GLC-SX-MM-RGD
1000Base-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K
▶ 1000Base-SX 1300nm Ext. Multimode 2km	TN-GLC-SX-MM-2K-RGD
<b>1000Base-SX HP Compatible</b>	
850nm Multimode 62.5/125um: 220m 50/125um: 550m	TN-J4858C
<b>1000BASE-LX Duplex LC</b>	
1310nm Single Mode 10km	TN-SFP-LX1
▶ 1310nm Single Mode 10km	TN-SFP-LX1T
1310nm Single Mode 10km (without DMI)	TN-SFP-ELX1
1310nm Single Mode 30km	TN-SFP-LX3
▶ 1310nm Single Mode 30km	TN-SFP-LX3T
1550nm Single Mode 50km	TN-SFP-LX5
1550nm Single Mode 80km	TN-SFP-LX8
1550nm Single Mode 120km	TN-SFP-LX12
1550nm Single Mode 160km	TN-SFP-LX16
1550nm Single Mode 200km	TN-SFP-LX20



## Gigabit Ethernet

Description	Part Number
<b>1000BASE-LX HP Compatible</b>	
1310nm Single Mode 20km	TN-J4859C
1550nm Single Mode 80km	TN-J4860C
<b>1000BASE-LX Cisco Compatible</b>	
1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM
▶▶ 1000BASE-LX 1310nm Single Mode 10km	TN-GLC-LH-SM-RGD
1000BASE-LX 1310nm Single Mode 40km	TN-GLC-LHX-SM
▶▶ 1000BASE-LX 1310nm Single Mode 10km	TN-SFP-GE-L
1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM
▶▶ 1000BASE-LX 1550nm Single Mode 80km	TN-GLC-ZX-SM-RGD
1000BASE-LX 1550nm Single Mode 120km	TN-GLC-ZX-SM-12
1000BASE-LX 1550nm Single Mode 150km	TN-GLC-ZX-SM-15
▶▶ 1000BASE-LX 1550nm Single Mode 80km	TN-SFP-GE-Z
<b>1000BASE-BX Simplex LC</b>	
1310nm TX/1490nm RX Single Mode 10km (without DMI)	TN-SFP-EBXU
1490nm TX/1310nm RX Single Mode 10km (without DMI)	TN-SFP-EBXD
1310nm TX/1490nm RX Single Mode 10km	TN-SFP-BXU
1490nm TX/1310nm RX Single Mode 10km	TN-SFP-BXD
1310nm TX/1490nm RX Single Mode 20km	TN-SFP-BXU2
1490nm TX/1310nm RX Single Mode 20km	TN-SFP-BXD2
<b>1000BASE-SX Simplex LC</b>	
1310nm TX/1550nm RX Multimode 500m	TN-SFP-SXB1
1550nm TX/1310nm RX Multimode 500m	TN-SFP-SXB2
<b>1000BASE-LX Simplex LC</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11
▶▶ 1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXB11T
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12
▶▶ 1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXB12T
1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21
▶▶ 1310nm TX/1550nm RX Single Mode 20km	TN-SFP-LXB21T
1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22
▶▶ 1550nm TX/1310nm RX Single Mode 20km	TN-SFP-LXB22T
1310nm TX/1550nm RX Single Mode 40km	TN-SFP-LXB41
1550nm TX/1310nm RX Single Mode 40km	TN-SFP-LXB42
1310nm TX/1550nm RX Single Mode 60km	TN-SFP-LXB61
1550nm TX/1310nm RX Single Mode 60km	TN-SFP-LXB62
1510nm TX/1590nm RX Single Mode 80km	TN-SFP-LXB81
1590nm TX/1510nm RX Single Mode 80km	TN-SFP-LXB82
1510nm TX/1590nm RX Single Mode 120km	TN-SFP-LXB121
1590nm TX/1510nm RX Single Mode 120km	TN-SFP-LXB122
1510nm TX/1590nm RX Single Mode 160km	TN-SFP-LXB161
1590nm TX/1510nm RX Single Mode 160km	TN-SFP-LXB162

### Key

- ▶▶ *Extended Temperature -40° to +85°C*
- ▶ *Each step 20nm 10km*
- ▶ *Each step 20nm 40km*
- ▶ *Each step 20nm 80km*
- ▶ *Each step 20nm 160km*

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## Gigabit Ethernet

Description	Part Number
<b>1000BASE-BX Simplex LC Cisco Compatible</b>	
1310nm TX/1490nm RX Single Mode 10km	TN-GLC-BX-U
1490nm TX/1310nm RX Single Mode 10km	TN-GLC-BX-D
1310nm TX/1490nm RX Single Mode 40km	TN-GLC-BX-U-40
1490nm TX/1310nm RX Single Mode 40km	TN-GLC-BX-D-40
1310nm TX/1490nm RX Single Mode 60km	TN-GLC-BX-U-60
1490nm TX/1310nm RX Single Mode 60km	TN-GLC-BX-D-60
1550nm TX/1490nm RX Single Mode 80km	TN-GLC-BX-U-80
1490nm TX/1550nm RX Single Mode 80km	TN-GLC-BX-D-80
1550nm TX/1490nm RX Single Mode 120km	TN-GLC-BX-U-120
1490nm TX/15150nm RX Single Mode 120km	TN-GLC-BX-D-120
<b>Copper SFP</b>	
10/100/1000BASE-T SGMII RJ-45 100m	TN-SFP-T-MG
<b>Copper SFP Cisco Compatible</b>	
1000Base-T RJ45 100m	TN-GLC-T
<b>1000BASE-SX GBIC</b>	
850nm Multimode (SC) 62.5/125um:220m 50/125um: 550m	TN-GB-MM5
<b>1000BASE-LX GBIC</b>	
1310nm Single Mode (SC) 10km	TN-GB-SM5
1310nm Single Mode (SC) 30km	TN-GB-SM53
<b>1000BASE-SX GBIC</b>	
850nm Multimode (SC) 62.5/125um:220m 50/125um: 550m	TN-GB-MM5
<b>1000BASE-LX GBIC</b>	
1310nm Single Mode (SC) 10km	TN-GB-SM5
1310nm Single Mode (SC) 30km	TN-GB-SM53
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-SFP-LX8-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 160km	TN-SFP-LX16-Cxx
▶ 18 wavelengths from 1270nm to 1610nm 200km	TN-SFP-LX20-Cxx
<b>CWDM Cisco Compatible</b>	
▶ 18 wavelengths from 1270nm to 1610nm 80km	TN-CWDM-100LX-1xx0
<b>100/1000Base-LX dual speed</b>	
Description	Part Number
<b>100/1000Base-LX dual speed</b>	
1310nm TX/1550nm RX Single Mode 10km	TN-SFP-LXMB11
1550nm TX/1310nm RX Single Mode 10km	TN-SFP-LXMB12

## OC-48/STM-16/ Fibre Channel

Description	Part Number
<b>Duplex LC</b>	
1x/2x/1000BASE-X 850nm Multimode 62.5: 150m 50um: 300m	TN-SFP-FC2XM
1310nm Single Mode 2km	TN-SFP-FC2XS2
1310nm Single Mode 15km	TN-SFP-FC2XS15
1310nm Single Mode 40km	TN-SFP-FC2XS40

## OC-48/STM-16/ Fibre Channel

Description	Part Number
<b>CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-OC48S-Cxx

## Fibre Channel 1x/2x/4x/1000BASE-X

Description	Part Number
<b>Fibre Channel 1x/2x/4x/1000BASE-X</b>	
850nm Multimode FC4: 150m/FC2:300m/FC1: 500m	TN-SFP-FC4XM
1310nm Single Mode 5km	TN-SFP-FC4XS5
1310nm Single Mode 10km	TN-SFP-FC4XS10
1310nm Single Mode 20km	TN-SFP-FC4XS20
1550nm Single Mode 40km	TN-SFP-FC4XS40
1550nm Single Mode 80km	TN-SFP-FC4XS80
▶ 18 wavelengths from 1270nm to 1610nm 40km	TN-SFP-FC4XS-Cxx

## 10G Ethernet XFP

Description	Part Number
<b>10GBASE-SR/10G Fibre Channel</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-SR
<b>10GBASE-SR/10G Fibre Channel Cisco Compatible</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR
<b>10GBASE-LRM</b>	
1310nm Multimode 300m	TN-XFP-LRM
<b>10GBASE-LR/ER/ZR/10G Fibre Channel</b>	
1310nm Single Mode 10km	TN-XFP-LR1
▶▶ 1310nm Single Mode 10km	TN-XFP-LR1-T
1310nm Single Mode 20km	TN-XFP-LR2
▶▶ 1310nm Single Mode 20km	TN-XFP-LR2-T
1310nm Single Mode 40km	TN-XFP-ER
1550nm Single Mode 80km	TN-XFP-ZR
1550nm Single Mode 100km	TN-XFP-LR10
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-XFP-10G-MM-SR
<b>10GBASE-LR/ER/ZR/10G Fibre Channel/ OC-192 Cisco Compatible</b>	
1310nm Single Mode 10km	TN-XFP-10GLR-OC192SR
1310nm Single Mode 20km	TN-XFP-10GLR2-OC192S
1550nm Single Mode 40km	TN-XFP-10GER-OC192IR
1550nm Single Mode 80km	TN-XFP-10GZR-OC192LR
<b>10GBase-LR Simplex LC Cisco Compatible</b>	
1270nm TX/1330nm RX single mode 10km	TN-XFP-10G-U
1330nm TX/1270nm RX single mode 10km	TN-XFP-10G-D
<b>10GBASE-BX Cisco Compatible</b>	
1270nm TX/1330nm RX single mode 40km	TN-XFP-10G-U-40
1330nm TX/1270nm RX single mode 40km	TN-XFP-10G-D-40
<b>10GBASE-LR/10G Fibre Channel CWDM</b>	
▶ 18 wavelengths from 1270nm to 1610nm 10km	TN-XFP-LR1-Cxx
14 wavelengths from 1270nm to 1370nm and 1470 to 1610nm 40km	TN-XFP-LR4-Cxx
8 wavelengths from 1470nm to 1610nm 70km	TN-XFP-LR7-Cxx
<b>10GBase-LR/10G Fibre Channel CWDM Cisco Compatible</b>	
▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-XFP-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-XFP-1xx0-80

## 10G Ethernet SFP+

Description	Part Number
<b>10GBASE-SR</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-10GSFP-SR
<b>10GBASE-SR Cisco Compatible</b>	
850nm Multimode 62.5/125um: 33m 50/125um: 300m	TN-SFP-10G-SR
<b>10GBase-SR HP Compatible</b>	
850nm Multimode 62.5/125um:33m 50/125um: 300m	TN-J9150A
<b>10GBase-LR/ER/ZR</b>	
1310nm Single Mode 10km	TN-10GSFP-LR1
1310nm Single Mode 20km	TN-10GSFP-LR2
1310nm Single Mode 40km	TN-10GSFP-LR4
1550nm Single Mode 70km	TN-10GSFP-LR7
<b>10GBASE-BX</b>	
1270nm TX / 1330nm RX Single Mode 10km	TN-10GSFP-LRB11
1330nm TX / 1270nm RX Single Mode 10km	TN-10GSFP-LRB12
1270nm TX / 1330nm RX Single Mode 20km	TN-10GSFP-LRB21
1330nm TX / 1270nm RX Single Mode 20km	TN-10GSFP-LRB22
1270nm TX / 1330nm RX Single Mode 40km	TN-10GSFP-LRB41
1330nm TX / 1270nm RX Single Mode 40km	TN-10GSFP-LRB42
1270nm TX / 1330nm RX Single Mode 60km	TN-10GSFP-LRB61
1330nm TX / 1270nm RX Single Mode 60km	TN-10GSFP-LRB62
<b>10GBase-LR/ER/ZR Cisco Compatible</b>	
1310nm Multimode 220m	TN-SFP-10G-LRM
1310nm Single Mode 10km	TN-SFP-10G-LR
1550nm Single Mode 40km	TN-SFP-10G-ER
1550nm Single Mode 80km	TN-SFP-10G-ZR
1270nm TX / 1330nm RX Single Mode 10km	TN-SFP-10G-U-10
1330nm TX / 1270nm RX Single Mode 10km	TN-SFP-10G-D-10
1270nm TX / 1330nm RX Single Mode 20km	TN-SFP-10G-U-20
1330nm TX / 1270nm RX Single Mode 20km	TN-SFP-10G-D-20
1270nm TX / 1330nm RX Single Mode 40km	TN-SFP-10G-U-40
1330nm TX / 1270nm RX Single Mode 40km	TN-SFP-10G-D-40
<b>10G CWDM Cisco Compatible</b>	
▶ 8 wavelengths from 1470nm to 1610nm	TN-CWDM-10G-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm	TN-CWDM-10G-1xx0-80

## 10G Ethernet X2

Description	Part Number
<b>10GBase-SR/LR/ER/ZR Cisco Compatible</b>	
850nm Multimode	TN-X2-10GB-SR
62.5/125um: 33m 50/125um: 300m	
1310nm Multimode 220m	TN-X2-10GB-LRM
1310nm Single Mode 10km	TN-X2-10GB-LR
1550nm Single Mode 40km	TN-X2-10GB-ER
1550nm Single Mode 80km	TN-X2-10GB-ZR
<b>CWDM Cisco Compatible</b>	
▶ 8 wavelengths from 1470nm to 1610nm 40km	TN-CWDM-X2-1xx0-40
▶ 8 wavelengths from 1470nm to 1610nm 80km	TN-CWDM-X2-1xx0-80

**NORTH AMERICA**  
**Worldwide Headquarters**  
**United States**  
tel: 952.941.7600  
toll free: 800.526.9267  
fax: 952.941.2322

**Canada**  
tel: +1 952.941.7600  
fax: +1 952.941.2322

**LATIN AMERICA**  
**Mexico / Central America /**  
**Caribbean**  
tel: +1 952.996.1690  
fax: +1 952.941.2322

**South America**  
tel: +54 11 4554 8076  
fax: +1 952.941.2322

**Brazil**  
tel: +55 11 8244 7630  
fax: +1 952.941.2322

**EUROPE**  
**EMEA Headquarters /**  
**Germany / Nordic**  
tel: +49 611 974 8460  
fax: +49 611 950 4672

**Eastern / Southern Europe**  
tel: +420 2 2426 6901  
fax: +420 2 2426 6854

**France / North Africa**  
tel: +33 1 6042 3042  
fax: +1 952.941.2322

**UK / Ireland / Sub Saharan Africa**  
tel: +44 1204 658098  
fax: +44 1204 607742

**ASIA**  
**China**  
tel: +86 21 3632 1919  
fax: +86 21 3632 1668

**Japan / Korea**  
tel: +81 3 5403 6470  
fax: +81 3 5403 6471

**Southeast Asia /**  
**Hong Kong / India**  
tel: +65 9736 8385  
fax: +1 952.941.2322



10900 Red Circle Drive  
Minnetonka, MN 55343 USA  
sales@transition.com  
info@transition.com  
techsupport@transition.com  
www.transition.com

*Lifetime Warranty on all Transition Networks SFP products*

*Part Number 900970 (0612)*

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