



Transceivers are NOT Cisco OEM brand modules.

CISCO COMPATIBLE TRANSCEIVERS

by Total Cable Solutions

TAA
COMPLIANT
AVAILABLE



Features

- Hot-pluggable-uses single 3.3 VDC power
- Enhanced formats for long haul or multiplexing applications
 - > 1550nm (ZX)
 - > CWDM (Course Wavelength Division Multiplexing)
 - > DWDM (Dense Wavelength Division Multiplexing)
 - > BiDi (bi-directional - transmit and receive multiplexed on a single fiber)

100% Cisco compatible transceivers by Total Cable Solutions are available in the following form factors: SFP, SFP+, XFP, X2, XENPAK, and QSFP+. TCS' CISCO compatible transceiver modules are also available in different models such as BiDi, CWDM, DWDM, from 100Mbps to 40Gbps. TCS' Cisco compatible transceivers are fully compliant with Ethernet, Fiber Channel, and SONET/SDH standards.

Specifications

- INF 8074i-SFP MSA (Multi-Source Agreement) compliant modules
- Complies with IEEE 802.3 Ethernet standards
- Connectors: LC for fiber; RJ-45 for unshielded twisted pair (copper)
- Standard telecommunications wavelengths for fiber applications (SX and LX)
- Operating temperature range:
 - > Commercial temperature range (COM): 0° to 70°C (32° to 158°F)
 - > Extended temperature range (EXT): -5° to 85°C (23° to 185°F)
 - > Industrial temperature range (IND): -40° to 85°C (-40° to 185°F)
 - > Storage temperature range: -40° to 85°C (-40° to 185°F)
- SFP modules typically consume up to 1W per SFP port

* See reverse for supported TRANSCEIVERS AND PROTOCOLS

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Ordering Information

Standard Operating Temperature
-0°C to +70°C

1G
 SONET
 10G
 25G
 40G
 100G

GBIC for GE

TCS-WS-G5484 GBIC 1000Base-SX (SC/GBIC 1000Base-SX)

TCS-WS-G5486 GBIC 1000Base-LX (SC/10km/1310nm/Single-Mode)

TCS-WS-G5487 GBIC 1000Base-ZX (SC/80km/1550nm/Single-Mode)

Copper

TCS-WS-G5483 TCS-WS-G5483 (RJ45/100m/---/ Category 5)

TCS-GLC-T SFP 1000Base-T (RJ45/100m/---/ Category 5)

TCS-GLC-T SFP 10/100/1000Base-T (RJ45/100m/---/ Category 5)

TCS-SFP-GE-T SFP 1000Base-T (RJ45/100m/---/ Category 5) Extended Temp.

SFP for GE

TCS-GLC-SX-MM SFP 1000Base-SX (LC/550m/850nm/Multi-Mode)

TCS-GLC-LH-SM SFP 1000Base-LX (LC/10km/1310nm/Single-Mode)

TCS-GLC-EX-SM SFP 1000Base-EX (LC/80km/1550nm/Single-Mode)

TCS-GLC-ZX-SM SFP 1000Base-ZX (LC/80km/1550nm/Single-Mode)

TCS-SFP-GE-S 1000BASE-SX short wavelength; with DOM

TCS-SFP-GE-L 1000BASE-LX/LH short wavelength; with DOM

TCS-SFP-GE-Z 1000BASE-ZX; with DOM

TCS-SFP-SX-MM-RGD 1000BASE-SX 850nm; rugged Industry temp.

TCS-SFP-LH-SM-RGD 1000BASE-LX/LH 1310nm; rugged Industry temp.

TCS-SFP-ZX-SM-RGD 1000BASE-ZX 1550nm; rugged Industry temp.

TCS-GLC-SX-MMD SFP 1000Base-SX (LC/550nm/850nm/Multi-Mode) DDM extended temp.

TCS-GLC-LH-SMD SFP 1000Base-LX (LC/10km/1310nm/SM) DDM extended temp.

TCS-GLC-EX-SMD SFP 1000Base-EX (LC/80km/1550nm/SM) DDM extended temp.

TCS-GLC-ZX-SMD SFP 1000Base-ZX (LC/80km/1550nm/SM) DDM extended temp.

SFP for FE

TCS-GLC-GE-100FX 100BASE-FX SFP for Gigabit Ethernet ports, 1310nm, 2 km, MMF

TCS-GLC-FE-100LX 100BASE-FX SFP SMF 1310nm, 10km

TCS-GLC-FE-100FX 100BASE-FX SFP MMF, 1310nm, 2km

TCS-GLC-FE-100EX 100BASE-FX SFP SMF, 1310nm, 40 km

TCS-GLC-FE-100ZX 100BASE-ZX SFP SMF, 1550nm, 80km

TCS-GLC-FE-100FX-RGD 100BASE-FX SFP MMF, 1310nm, 2km Industry temp.

TCS-GLC-FE-100LX-RGD 100BASE-FX SFP SMF, 1310nm, 10km Industry temp.

BIDI (WDM) SFP

TCS-GLC-BX-D 1000BASE-BX10-D SFP 1490TX/1310RX 10km with DOM

TCS-GLC-BX-U 1000BASE-BX10-U SFP 1310TX/1490RX 10km with DOM

TCS-GLC-FE-100BX-D 100BASE-BX10-D SFP 1550TX/1310RX 10km

TCS-GLC-FE-100BX-U 100BASE-BX10-U SFP 1310TX/1550RX 10km

CWDM/DWDM

TCS-CWDM-SFP-xxxx 1.25Gb/s CWDM SFP xxxx nm From 1310nm to 1610nm

TCS-CWDM-GBIC-xxxx 1.25Gb/s CWDM SFP xxxx nm From 1310nm to 1610nm

TCS-DWDM-SFP-xxxx 1.25Gb/s CWDM SFP xxxx nm Transceiver. From 3033 (1530.33nm) to 6141(1561.42nm) 40 channel, 100-GHz ITU grid

TCS-DWDM-GBIC-xxxx 1.25Gb/s CWDM GBIC xxxx nm Transceiver. From 3033 (1530.33nm) to 6141(1561.42nm) 40 channel, 100-GHz ITU grid

SONET SFP

TCS-SFP-OC3-MM OC-3/STM-1 pluggable 2km, 1310nm, MMF (LC)

TCS-SFP-OC3-SR OC-3/STM-1 pluggable 2km, 1310nm (LC)

TCS-SFP-OC3-IR1 OC-3/STM-1 pluggable 15km, 1310nm (LC)

TCS-SFP-OC3-LR1 OC-3/STM-1 pluggable 40km, 1310nm (LC)

TCS-SFP-OC3-LR2 OC-3/STM-1 pluggable 80km, 1550nm (LC)

TCS-SFP-OC12-MM OC-12/STM-4 pluggable 2km, 1310nm, MMF (LC)

TCS-SFP-OC12-SR OC-12/STM-4 pluggable 2km, 1310nm, SMF (LC)

TCS-SFP-OC12-IR1 OC-12/STM-4 pluggable 15km, 1310nm, (LC)

TCS-SFP-OC12-LR1 OC-12/STM-4 pluggable 40km, 1310nm (LC)

TCS-SFP-OC12-LR2 OC-12/STM-4 pluggable 80km, 1550nm (LC)

TCS-SFP-OC48-SR OC-48c/STM-16 pluggable 2km, 1310nm (LC)

TCS-SFP-OC48-IR1 OC-48c/STM-16 pluggable, 15km, 1310nm (LC)

TCS-SFP-OC48-LR2 OC-48c/STM-16 pluggable 80km, 1550nm (LC)

10G SFP+

TCS-SFP-10G-SR 10GBASE-SR SFP+ 850nm, MMF, 300m

TCS-SFP-10G-SR-S 10GBASE-SR SFP+ 850nm, MMF, 300m

TCS-SFP-10G-SR-X 10GBASE-SR SFP+ 850nm, MMF, 300m extended temperature

TCS-SFP-10G-LR 10GBASE-LR SFP+ 1310nm, SMF, 10km

TCS-SFP-10G-LR-S 10GBASE-LR SFP+ 1310nm, SMF, 10km

TCS-SFP-10G-LR-X 10GBASE-LR SFP+ 1310nm, SMF, 10km extended temperature

TCS-SFP-10G-LRM 10GBASE-LRM SFP+ 1310nm, MMF, 220m

TCS-SFP-10G-ER 10GBASE-ER SFP+ 1550nm, SMF, 40km

TCS-SFP-10G-ZR 10GBASE-ZR SFP+ 1550nm, SMF, 80km

TCS-FET-10G 10G Fabric Extender Transceiver, LC duplex connector

TCS-CWDM-SFP10G-xxxx 10GBASE CWDM SFP+, XXXXnm, SMF, 80km
(xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-DWDM-SFP10G-xx.xx 10GBASE DWDM SFP+, XX.XXnm, SMF, 80km

10G XFP

TCS-XFP-10G-MM-SR 10GBASE-SR Ethernet XFP transceiver module for MMF, dual LC connector

TCS-XFP-10GLR-OC192SR 10GBASE-LR Ethernet and OC-192/STM-64 XFP intermediate-reach (IR-2) Packet-over-SONET/SDH (POS), SMF, dual LC connector

TCS-XFP-10GER-192IR+ 10GBASE-ER Ethernet and OC-192/STM-64 XFP intermediate-reach (IR-2) Packet-over-SONET/SDH (POS), SMF, dual LC connector

TCS-XFP-10GZR-OC192LR 10GBASE-ZR Ethernet and OC-192/STM-64 XFP long-reach Packet-over-SONET/SDH (POS), SMF, dual LC connector

TCS-TCS-ONS-XC-10G-xxxx OC192/10GE/OTU2, CWDM, xxxxxnm, XFP C-Temp, 40km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-CWDM-XFP-xxxx 10GBASE CWDM XFP 80km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-DWDM-XFP-xx.xx 10GBASE DWDM XFP 80km xx.xxnm

TCS-ONS-XC-10G-Epxx.x 10GBASE DWDM XFP 40km xx.xxnm

10G X2

TCS-X2-10GB-SR 10GBASE-SR X2 transceiver module for MMF, 300m

TCS-X2-10GB-LR 10GBASE-LR X2 transceiver module for SMF, 10km

TCS-X2-10GB-LRM 10GBASE-LRM X2 transceiver module for MMF 220m

TCS-X2-10GB-ER 10GBASE-ER X2 transceiver module for SMF, 40km

TCS-X2-10GB-ZR 10GBASE-ZR X2 transceiver module for SMF, 80km

TCS-CWDM-X2-xxxx 10GBASE CWDM X2 transceiver module for SMF, 40km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-CWDM-X2-xxxx 10GBASE CWDM X2 transceiver module for SMF, 80km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-DWDM-X2-xx.xx 10GBASE DWDM X2 transceiver module for SMF, 40km

TCS-DWDM-X2-xx.xx 10GBASE DWDM X2 transceiver module for SMF, 80km

10G XENPAK

TCS-XENPAK-10GB-SR 10GBASE-SR XENPAK MMF, 850nm, 300m

TCS-XENPAK-10GB-LR 10GBASE-LR XENPAK + SMF, 1310nm, 10km

TCS-XENPAK-10GB-LRM 10GBASE-LRM 220m MMF 1310nm

TCS-XENPAK-10GB-ER 10GBASE-ER XENPAK SMF, 1550nm, 40km

TCS-XENPAK-10GB-ZR 10GBASE-ZR 1550nm SMF 80km

TCS-CWDM-XENPAK-xxxx 10GBASE CWDM XENPAK transceiver module for SMF, 40km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-CWDM-XENPAK-xx.xx 10GBASE CWDM XENPAK transceiver module for SMF, 80km (xxxx=1470/1490/1510/1530/1550/1570/1590/1610)

TCS-DWDM-XENPAK-xx.xx 10GBASE DWDM XENPAK transceiver module for SMF, 40km

TCS-DWDM-XENPAK-xx.xx 10GBASE DWDM XENPAK transceiver module for SMF, 80km

25G SFP28

TCS-SFP-25G-SR-S 25GBASE-SR SFP+, 850nm, MMF, 100m

TCS-SFP-10/25GB-LR-S 10/25GBASE-LR +1310nm, SMF, 10km

40G QSFP+

TCS-QSFP-40G-SR4 40GBASE-SR4 QSFP+ Module for MMF

TCS-QSFP-40G-LR4 40GBASE-LR4 QSFP+ Module for SMF

TCS-QSFP-40G-SR4 40GBASE-SR4, 4 lanes, MPO, 850nm MMF

TCS-QSFP-40G-SR4-S 40GBASE-SR4, 4 lanes, MPO, 850nm MMF

TCS-QSFP-40G-LR4 40GBASE-LR4, LC duplex, 1310nm, SMF with OTU3 data-rate support

TCS-QSFP-40G-LR4-S 40GBASE-LR4, LC duplex, 1310nm, SMF

TCS-QSFP-40G-SR-BD 40GBASE-SR-BiDi, LC duplex MMF

100G QSFP28

TCS-QSFP-100G-SR4-S 100GBASE-SR4 QSFP Transceiver, MPO, 100m over OM4 MMF

TCS-QSFP-100G-LR4-S 100GBASE-LR4 QSFP Transceiver, LC duplex, 10km over SMF

TCS-QSFP-40/100-SRBD 100G and 40GBASE SR-BiDi QSFP Transceiver, LC duplex, 100m OM4 MMF

TCS-QSFP-100G-CWDM4-S 100GBASE CWDM4 QSFP Transceiver, LC duplex, 2km over SMF

TCS-QSFP-100G-PSM4-S 100GBASE PSM4 QSFP Transceiver, MPO, 500m over SMF