

Leading Brand Compatible

Transceivers



Transceivers are NOT OEM brand modules.



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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% Compatible transceivers by LYNN are available for these brands: Cisco, Extreme Networks, and HP in the following form factors: SFP, SFP+, XFP, X2, XENPAK, and QSFP+. LYNN's compatible transceiver modules are also available in different models such as BiDi, CWDM, DWDM, from 100Mbps to 40Gbps. Compatible transceivers by LYNN 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

CISCO COMPATIBLE 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 DDM
- TCS-SFP-GE-L 1000BASE-LX/LH short wavelength; with DDM
- TCS-SFP-GE-Z 1000BASE-ZX; with DDM
- 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/550m/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/1310nm/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 DDM
- TCS-GLC-BX-U 1000BASE-BX10-U SFP 1310TX/1490RX 10km with DDM
- 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 xxxm nm From 1310nm to 1610nm
- TCS-CWDM-GBIC-xxxx 1.25Gb/s CWDM SFP xxx nm From 1310nm to 1610nm
- TCS-DWDM-SFP-xxxx 1.25Gb/s CWDM SFP xxx.xx 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 xxx.xx 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-FEI-10G Fabric Extender Transceiver, LC duplex connector
- TCS-CWDM-SFP10G-xxxx 10GBASE CWDM SFP+, xxxnm, SMF, 80km (xxxx-1470/1490/1510/1530/1550/1570/1590/1610)

- TCS-DWDM-SFP10G-xx.xx 10GBASE DWDM SFP+, xx,xxxnm, 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, xxxnm, 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,xxxnm

- TCS-ONS-XC-10G-Epox.xx 10GBASE DWDM XFP 40km xx,xxxnm

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 t 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-xxxx 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-SR4-4 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

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EXTREME COMPATIBLE ORDERING INFORMATION

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

1G

10G

40G

GBIC for GE

TCS-10018 GBIC 1000Base-T (RJ45/100m/---/ Category 5) Transceiver

TCS-10011 GBIC 1000Base-SX (SC/550m/850nm/Multi-Mode) Transceiver

TCS-10013 GBIC 1000Base-LX (SC/10Km/1310nm/Single-Mode) Transceiver

TCS-10017 GBIC 1000Base-ZX (SC/70Km/1550nm/Single-Mode) Transceiver

TCS-10019 GBIC 1000Base-ZX (SC/100Km/1550nm/Single-Mode) Transceiver

SFP for GE

TCS-10065 SFP 10/100/ 1000Base-T (RJ45/100m/---/ Category 5) Transceiver

TCS-10051 SFP 1000Base-SX (LC/550m/850nm/Multi-Mode) Transceiver

TCS-10051H SFP 1000Base-SX (LC/550m/850nm/Multi-Mode) Transceiver
Industrial temp

TCS-10052 SFP 1000Base-LX (LC/10Km/1310nm/Single-Mode) Transceiver

TCS-10052H SFP 1000Base-LX (LC/10Km/1310nm/Single-Mode) Transceiver
Industrial temp

TCS-10053 SFP 1000Base-ZX (LC/70Km/1550nm/Single-Mode)

TCS-10071 SFP 1000Base-SX (LC/550m/850nm/MM) 10pack

TCS-10071H SFP 1000Base-SX (LC/550m/850nm/MM) 10pack Industrial temp

TCS-10072 SFP 1000Base-LX (LC/10Km/1310nm/MM) 10pack

TCS-10072H SFP 1000Base-LX (LC/10Km/1310nm/MM) 10pack Industrial temp

SFP for FE

TCS-10067 100BASE-FX mini-GBIC module Mini-GBIC, 100Base-FX MMF SFP, Support for 100M SFP ports, (1310-nm, 125Mbps, 2km multimode transmission) LC connector

TCS-10066 100BASE-LX10 mini-GBIC Mini-GBIC, 100Base-LX10 SFP, Support for 100M SFP ports, 125Mbps with transmission distance of 10km, SMF, LC connector

TCS-10064 LX100 mini-GBIC module Mini-GBIC, SFP, Extra long distance SMF 100 Km/30 dB budget, LC connector

BIDI (WDM) SFP

TCS-10056 100BASE-BX mini-GBIC BX-D Mini-GBIC, SFP, 1000BASE-BX-D, Support for 1000M SFP ports, SMF (1490-nm TX/1310-nm RX)

TCS-10057 100BASE-BX mini-GBIC BX-U Mini-GBIC, SFP, 1000BASE-BX-U, Support for 1000M SFP ports, SMF (1310-nm TX/1490-nm RX)

TCS-10058 100BASE-BX mini-GBIC BX-D Mini-GBIC, SFP, 1000BASE-BX-D, Support for 100 SFP ports, SMF (1550-nm TX/1310-nm RX)

TCS-10059 100BASE-BX mini-GBIC BX-U Mini-GBIC, SFP, 1000BASE-BX-U, Support for 100M SFP ports, SMF (1310-nm TX/1550-nm RX)

10G XENPAK

TCS-10110 10 Gigabit Ethernet XENPAK Transceiver, SR, 850 nm, MMF, 300 m range

TCS-10111 10 Gigabit Ethernet XENPAK Transceiver, LR, 1310 nm, SMF, 10 Km range

TCS-10112 10 Gigabit Ethernet XENPAK Transceiver, ER, 1550 nm, SMF, 40 Km range

TCS-10113 10GBASE-ZR XENPAK 1550nm 80km Optical Transceiver

10G XFP

TCS-10121 10GBASE-SR XFP, LC Connector MMF 850nm 300m

TCS-10122 10GBASE-LR XFP, LC Connector SMF 1310nm 10km

TCS-10124 10GBASE-ER XFP, LC Connector, SMF 1550nm 40km

TCS-10125 10GBASE-ZR XFP, LC Connector, SMF 1550nm 80km

TCS-10220 Tunable DWDM XFP Transceiver 10 Gigabit Ethernet XFP Tunable DWDM module, C-band, SMF 80km, LC

10G SFP+

TCS-10301 10GBASE-SR SFP+ 850nm 300m Optical Transceiver

TCS-10302 10GBASE-LR SFP+ 1310nm 10km Optical Transceiver

TCS-10303 10GBASE-LRM SFP+ 1310nm 220m Optical Transceiver

TCS-10309 10GBASE-ER SFP+ 1550nm 40km Optical Transceiver

10G SFP+ Cable Assembly

TCS-10304 Extreme Networks 1M SFP+ Twinaxial Cable

TCS-10305 Extreme Networks 3M SFP+ Twinaxial Cable

TCS-10306 Extreme Networks 5M SFP+ Twinaxial Cable

TCS-10307 Extreme Networks 10M SFP+ Twinaxial Cable

40G QSFP+ Transceivers

TCS-10319 40G QSFP+ SR4 Transceiver

TCS-10320 40G QSFP+ LR4 Transceiver

40G QSFP+ QSFP+ Direct-Attach Copper

TCS-10311 0.5M QSFP+ to QSFP+ Twinaxial Cable

TCS-10312 1M QSFP+ to QSFP+ Twinaxial Cable

TCS-10313 3M QSFP+ to QSFP+ Twinaxial Cable

TCS-10323 5M QSFP+ to QSFP+ Twinaxial Cable Passive

40G QSFP+ to 4SFP

TCS-10321 3M QSFP+ to 4 x SFP+ Breakout Cable

TCS-10322 5M QSFP+ to 4 x SFP+ Breakout Cable

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HP COMPATIBLE ORDERING INFORMATION

Standard Operating Temperature

-0°C to +70°C

 1G

 10G

SFP for GE

- TCS-J8177A SFP 1000Base-T (RJ45/100m/---/ Category 5) Transceiver
- TCS-J4858A SFP 1000Base-SX (LC/550m/850nm/Multi-Mode) Transceiver
- TCS-J4859A SFP 1000Base-LX (LC/10Km/1310nm/Single-Mode) Transceiver
- TCS-J4860A SFP 1000Base-ZX (LC/70Km/1550nm/Single-Mode) Transceiver
- TCS-J8177B SFP 1000Base-T (RJ45/100m/---/ Category 5) Transceiver
- TCS-J4858B SFP 1000Base-SX (LC/550m/850nm/Multi-Mode) Transceiver
- TCS-J4859B SFP 1000Base-LX (LC/10Km/1310nm/Single-Mode) Transceiver
- TCS-J4860B SFP 1000Base-ZX (LC/70Km/1550nm/Single-Mode) Transceiver
- TCS-J8177C SFP 1000Base-T (RJ45/100m/---/ Category 5) Transceiver
- TCS-J4858C SFP 1000Base-SX (LC/550m/850nm/Multi-Mode) Transceiver
- TCS-J4859C SFP 1000Base-LX (LC/10Km/1310nm/Single-Mode) Transceiver
- TCS-J4860C SFP 1000Base-ZX (LC/70Km/1550nm/Single-Mode) Transceiver

SFP for FE

- TCS-J9054B HP X111 100M SFP FX ProCurve 100-FX SFP-LC Transceiver

BIDI SFP

- TCS-J9099B ProCurve 100-BX-D SFP-LC Transceiver (HP X112 100M) TX1550
- TCS-J9100B ProCurve 100-BX-U SFP-LC Transceiver (HP X112 100M) TX1310
- TCS-J9142B ProCurve 1000-BX-D SFP-LC Mini-GBIC (HP X122 1G) TX1490
- TCS-J9143B ProCurve 1000-BX-U SFP-LC Mini-GBIC (HP X122 1G) TX1310

10G X2

- TCS-J8436A ProCurve 10-GbE X2-SC SR Optic
- TCS-J8437A ProCurve 10-GbE X2-SC LR Optic
- TCS-J9144A ProCurve 10-GbE X2-SC LRM Optic
- TCS-J8438A ProCurve 10-GbE X2-SC ER Optic

10G XENPAK

- TCS-J8175A HP ProCurve 10-GbE XENPAK SR Optic
- TCS-J8173A HP ProCurve 10-GbE XENPAK LR Optic
- TCS-J8176A HP ProCurve 10-GbE XENPAK ER Optic

10G SFP+

- TCS-J9150A HP X132 10G SFP+ LC SR Transceiver
- TCS-J9151A HP X132 10G SFP+ LC LR Transceiver
- TCS-J9152A HP X132 10G SFP+ LC LRM Transceiver
- TCS-J9153A HP X132 10G SFP+ LC ER Transceiver

10G XFP to SFP+ Cable Assembly

- TCS-J9300A HP ProCurve X244 10G XFP to SFP+ 1m Direct Attach Copper Cable
- TCS-J9301A HP ProCurve X244 10G XFP to SFP+ 3m Direct Attach Copper Cable
- TCS-J9302A HP ProCurve X244 10G XFP to SFP+ 5m Direct Attach Copper Cable

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