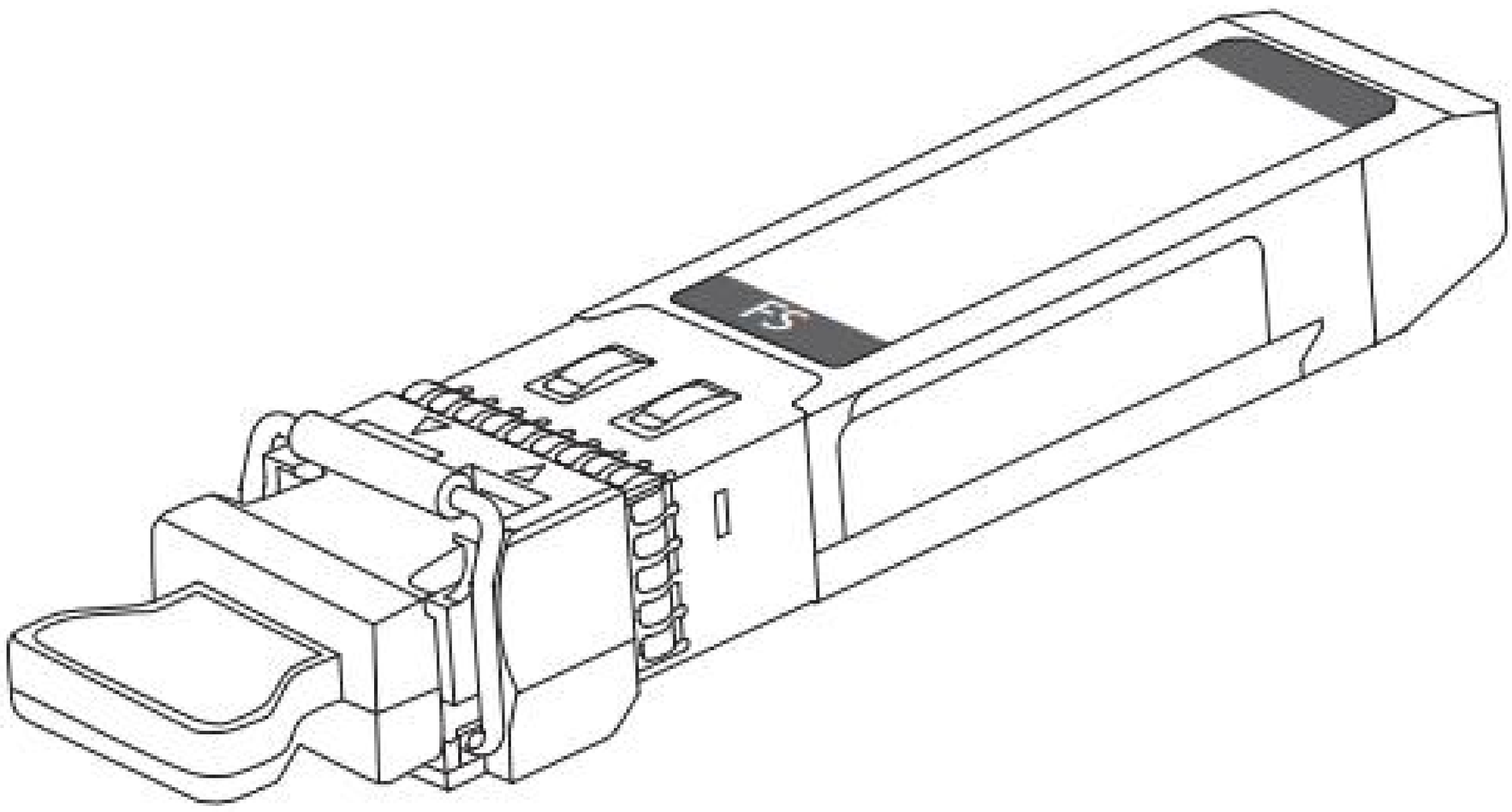
10G SFP+ Cable and Transceiver Modules Data Sheet

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Product overview

The FS® 10GBASE Quad Small Form-Factor Pluggable (SFP+) portfolio offers customers a wide variety of high- density and low-power 10 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications. The SFP+-10G modules are our latest generation of 10G transceiver modules solution based on a SFP+ form factor.

(See Figure 1)



• SFP-10GSR-85 • SFP-10GLR-31 • SFP-10GLRM-31 • SFP-10GER-55

Figure 1.

SFP+ 10G Optical modules

Features and benefit

- Industry's smallest 10G form factor for greatest density per chassis
- Hot-swappable input/output device that plugs into an Ethernet SFP+ port
- Digital optical monitoring capability for strong diagnostic capabilities
- Certified and tested on Cisco, Arista, Juniper, Brocade SFP+ 10G ports for superior performance, quality, and reliability. For more details, refer to the FS Assured Program for Transceivers

Table 1 describes the SFP+ 10G portfolio.

Table 1. SFP+ 10G portfolio

Product	Description	Connector type
SFP-10G-T-30	10GBASE-TSFP+Transceiver,RJ-45,30m over Copper Cable	RJ-45
SFP-10G-T-80	10GBASE-TSFP+Transceiver,RJ-45,80m over Copper Cable	RJ-45

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SFP-10G-T-100	10GBASE-TSFP+Transceiver,RJ-45,100m over Copper Cable	RJ-45
SFP-10G-T-301	10GBASE-TSFP+TransceiverRJ-45,30m over Copper Cable,I-Temp	RJ-45
SFP-10GSR-85	10GBASE SR SFP+TransceiverLC300m over OM3 MMF	Duplex LC
SFP-10GSR-85-1	10GBASE SR SFP+Transceiver,LC,300m over OM3 MMF,I-Temp	Duplex LC
SFP-10GLRM-31	0GBASE LRM SFP+Transceiver,LC,220m over OM3 MMF	Duplex LC
SFP-10GLRM-31-	10GBASE LRM SFP+Transceiver,LC,220m over OM3 MMF,I-Temp	Duplex LC
SFP-10GLRL-31	10GBASE LRM SFP+Transceiver,LC,2km over OS2 SMF	Duplex LC
SFP-10GLRL-31-1	10GBASE LRLSFP+Transceiver,LC,2km over OS2 SMF,I-Temp	Duplex LC
SFP-10GMLR-31	10GBASE LR SFP+Transceiver,LC,10km over OS2 SMF,Dual rate	Duplex LC
SFP-10GLR-31	10GBASE LR SFP+Transceiver,LC,10km over OS2 SMF	Duplex LC
SFP-10GLR-31-	10GBASE LR SFP+Transceiver,LC,10km over OS2 SMF,I-Temp	Duplex LC
SFP-10GER-31	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF	Duplex LC
SFP-10GER-31-	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF,I-Temp	Duplex LC
SFP-10GER-55	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF	Duplex LC
SFP-10GER-55-1	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF,I-Temp	Duplex LC
SFP-10GZR-55	10GBASE ZR SFP+Transceiver,LC,80km over OS2 SMF	Duplex LC
SFP-10GZR-55-1	10GBASE ZR SFP+Transceiver,LC,80km over OS2 SMF,I-Temp	Duplex LC
SFP-10GZR100-55	10GBASE ZRC SFP+Transceiver,LC,100km over OS2 SMF	Duplex LC
SFP-10GZR100-55-	10GBASE ZRC SFP+Transceiver,LC,100km over OS2 SMF,I-Temp	Duplex LC
SFP-10GZR120-55	10GBASE ZRC SFP+Transceiver,LC,120km over OS2 SMF	Duplex LC
SFP-10G-BX	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1270nm/1330nm	Simplex LC
SFP-10G-BX-I	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1270nm/1330nm,I-Temp	Simplex LC
SFP-10G-BX	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1270nm/1330nm	Simplex LC
SFP-10G-BX-I	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1270nm/1330nm,I-Temp	Simplex LC
SFP-10G-BX40	10GBASE BX40 SFP+Transceiver,LC,40km over OS2 SMF,1270nm/1330nm	Simplex LC
SFP-10G-BX40-1	10GBASE BX40 SFP+Transceiver,LC,40km over OS2 SMF,1270nm/1330nm,I-Temp	Simplex LC
SFP-10G-BX60	10GBASE BX60 SFP+Transceiver,LC,60km over OS2 SMF,1270nm/1330nm	Simplex LC
SFP-10G-BX60-1	10GBASE BX60 SFP+Transceiver,LC,60km over OS2 SMF,1270nm/1330nm,I-Temp	Simplex LC
SFP-10G-BX80	10GBASE BX80 SFP+Transceiver,LC,80km over OS2 SMF,1490nm/1550nm	Simplex LC
SFP-10G-BX80-1	10GBASE BX80 SFP+Transceiver,LC,80km over OS2 SMF,1490nm/1550nm,I-Temp	Simplex LC
SFP-10G-BX100	10GBASE BX100 SFP+Transceiver,LC,100km over OS2 SMF,1490nm/1550nm	Simplex LC
CWDM-SFP10G-10SP	10GBASE CWDM SFP+Transceiver,LC,10km over OS2 SMF,1270nm-1330nm	Duplex LC
CWDM-SFP10G-10M	10GBASE CWDM SFP+Transceiver,LC10km over OS2 SMF,1350nm-1610nm	Duplex LC
CWxx-10GSFP-10-I	10GBASE CWDM SFP+Transceiver,LC,10km over OS2 SMF,1270nm-1610nm,I-Temp	Duplex LC

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CWDM-SFP10G-20SP	10GBASE CWDM SFP+Transceiver,LC,20km over OS2 SMF,1270nm-1330nm	Duplex LC
CWDM-SFP10G-20S	10GBASE CWDM SFP+Transceiver,LC,20km over OS2 SMF,1350nm-1450nm	Duplex LC
CWDM-SFP10G-20L	10GBASE CWDM SFP+Transceiver,LC,20km over OS2 SMF,1470nm-1610nm	Duplex LC
CWDM-SFP10G-40S	10GBASE CWDM SFP+Transceiver,LC,40km over OS2 SMF,1270nm-1450nm	Duplex LC
CWDM-SFP10G-40L	10GBASE CWDM SFP+Transceiver,LC,40km over OS2 SMF,1470nm-1610nm	Duplex LC
CWDM-SFP10G-40-I	10GBASE CWDM SFP+Transceiver,LC,40km over OS2SMF,1270nm-1610nm,I-Temp	Duplex LC
DWDM-SFP10G-80	10GBASE DWDM SFP+TransceiverLC,80km over OS2 SMF,C17-C61	Duplex LC
DWDM-SFP10G-80-1	10GBASE DWDM SFP+Transceiver,LC,80km over OS2 SMF,C17-C61,I-Temp	Duplex LC
DWxx-10GSFP-100	10GBASE DWDM SFP+TransceiverLC,80km over OS2 SMF,C17-C61	Duplex LC
DWDM-SFP10G-C	10GBASE DWDM SFP+ Transceiver, LC, 80km over OS2 SMF, Tunable	Duplex LC
SFP-10G-PCXXXX (0.5M, 1M, 1.5M, 2M, 2.5M, 3M, 4M, 6M, 7M)	10GBASE SFP+ Passive Copper Cable	-
SFP-10G-ACXXX (1M, 3M, 5M, 7M, 10M)	10GBASE SFP+ Active Copper Cable	-
SFP-10G-AOxxxx (1M, 2M, 3M, 5M, 7M, 15M, 20M, 25M, 30M, 30M)	100GBASE QSFP28 to 4xSFP25G Passive Copper Splitter Cables	-

SFP-10G-T-30

The SFP-10G-T-30 transceiver provides 10GBase-T throughput up to 30m over cat6a/cat7 copper cable via RJ- 45 connector. This transceiver is compliant with IEEE 802.3an, IEEE 802.3az, SFF-8431 and SFP+ MSA. Each SFP+ transceiver module is individually tested to be used on a series of switches, routers, servers, network interface card (NICs) etc.

SFP-10G-T-80

The SFP-10G-T-80 transceiver provides 10GBase throughput up to 80m over cat6a/cat7 copper cable via RJ-45 connector. This transceiver is compliant with IEEE 802.3an, IEEE 802.3az, SFF-8431 and SFP+ MSA. Each SFP+ transceiver module is individually tested to be used on a series of switches, routers, servers, network interface card (NICs) etc.

SFP-10G-T-100

The SFP-10G-T-100 transceiver provides 10GBase-T throughput up to 100m over cat6a/cat7 copper cable. This transceiver is compliant with IEEE 802.3az, SFF-8431, SFF-8432 and SFP+ MSA. Each SFP+ transceiver module is individually tested to be used on a series of switches, routers, servers, network interface card (NICs) etc.

SFP-10G-T-30I

The SFP-10G-T-30I transceiver provides 10GBase-T throughput up to 30m over cat6a/cat7 copper cable via RJ- 45 connector. This transceiver is compliant with IEEE 802.3an, IEEE 802.3az, SFF-8431 and SFP+ MSA. Each SFP+ transceiver module is individually tested to be used on a series of switches, routers, servers, network interface card (NICs) etc. Featuring an operating temperature range of -40 。C to 85 。C, this industrial transceiver can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

SFP-10GSR-85

The SFP-10GSR-85 transceiver supports up to 400m link lengths over OM4 MMF (300m over OM3 MMF) via an LC duplex connector. This

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transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. etc.

SFP-10GSR-85-I

The SFP-10GSR-85-I transceiver supports up to 400m link lengths over OM4 MMF (300m over OM3 MMF) via an LC duplex connector. This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GLRM-31-I

The SFP-10GLRM-31-I transceiver supports up to 220m over OM3 multi mode fiber (MMF). This transceiver is compliant with IEEE802.3. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GLRM-31

The SFP-10GLRM-31 transceiver supports up to 220m over OM3 multi mode fiber (MMF). This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3aq 10GBASE-LRM. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Legacy FDDI multi mode links etc.

SFP-10GLRL-31

The SFP-10 GLRL-31 transceiver supports up to 2km over OS2 SM F via an LC duplex connector . This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae 10GBASE-LR. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Fiber Channel, SONET and SDH etc.

SFP-10GLRL-31-I

The SFP-10GLRL-31-I transceiver supports up to 2km link lengths over duplex LC OS2 singlemode fiber (SMF). This transceiver is compliant with SFP+ MSA, SFF-8431 and SFF-8472 standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters via the I2C interface. It is suitable for 10GBASE Ethernet application and can work in harsh industrial environments, such as telecommunications, outdoor applications and marine, oil and gas, mining.

SFP-10GMLR-31

The SFP-10 GMLR-31 transceiver supports up to 10km over OS2 SMF via an LC duplex connector . This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae 10GBASE-LR/ LW, and 10G Fibre Channel 1200-SM-LL-L. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10 G SFP+ transceiver is ideal for data center, 10 G Ethernet and Fibre Channel etc.

SFP-10GLR-31

The SFP-10GLR-31 transceiver supports up to 10km link lengths over LC duplex SMF fiber. This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. This 10G SFP+ transceiver is ideal for data center, enterprise wiring closet, service provider transport application, Radio & Baseband Unit, etc.

SFP-10GLR-31-I

The SFP-10GLR-31-I transceiver supports up to 10km link lengths over LC duplex SMF fiber. This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GER-31

The SFP-10 GER-31 transceiver supports up to 40km over OS2 SM F via an LC duplex connector . This transceiver is compliant with SFF-8431 and SFF-8432. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472 . Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Fibre Channel etc.

SFP-10GER-31-I

The SFP-10GER-31-I transceiver supports up to 40km link lengths over OS2 SMF via an LC duplex connector. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Each SFP+ transceiver module is individually tested to be used on a series of Cisco switches, routers, servers, network interface card (NICs) etc. Featuring an operating temperature range of -40 。C to 85 。C, this

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industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GER-55

The SFP-10 GER-55 transceiver supports up to 40km over OS2 SM F via an LC duplex connector . This transceiver is compliant with SFF-8431 and SFF-8432. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472 . Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Fibre Channel etc.

SFP-10GER-55-I

The SFP-10GER-55-I transceiver supports up to 40km link lengths over SMF fiber. This transceiver is compliant with SFF-8431, SFF-8432, 10GFC Rev 4.0 and 10GBASE-ER standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GZR-55

The SFP-10 GZR-55 transceiver supports up to 80km over OS2 SM F via an LC duplex connector . This transceiver is compliant with per the RoHS Directive 2011/65/EU. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Fiber Channel etc.

SFP-10GZR-55-I

The SFP-10GZ-55-I transceiver supports up to 80km link lengths over SMF via an LC duplex connector. This transceiver is compliant with IEEE Std 802.3by, SFF-8431, SFF-8432, SFF-8402, SFF-8472, SFF-8024. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. The SFP-10GZR-55-I is for industrial operating temperature range and can work in harsh industrial environments.

SFP-10GZR100-55

The SFP-10GZR100-55 transceiver supports up to 100km over OS2 SMF via an LC duplex connector. This transceiver is compliant with per the RoHS Directive 2011/65/EU. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Fiber Channel etc.

SFP-10GZR100-55-I

The SFP-10GZR100-55-I transceiver supports up to 100km link lengths over SMF fiber. This transceiver is compliant with SFP+ MSA and IEEE802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10GZR120-55

The SFP-10GZR120-55 transceiver supports up to 120km over OS2 SMF via an LC duplex connector. This transceiver is compliant with SFF-8431. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet and Fibre Channel etc.

SFP-10G-BX (10km)

The SFP-10G-BX transceiver supports up to 10km link lengths over OS2 SMF via an LC simplex connector. Digital diagnostics can also be used through t he I2C interface designated by SFF-8472 to allow access to real- time operating parameters. Each BIDI SFP+ transceiver module is individually tested to be used on a series of Cisco switches, routers, servers, network interface cards (NICs) etc. Featuring low power consumption and high speed, this 10G BIDI SFP+ transceiver is ideal for enterprise wiring closets, service provider transport applications, Radio & Baseband Units, etc.

SFP-10G-BX-I (10km)

The SFP-10G-BX-I transceiver supports up to 10km link lengths over OS2 SMF via an LC simplex connector. Digital diagnostics can also be used through t he I2C interface designated by SFF-8472 to allow access to real- time operating parameters. Each BIDI SFP+ transceiver module is individually tested to be used on a series of Cisco switches, routers, servers, network interface cards (NICs) etc.Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10G-BX (20km)

The SFP-10G-BX transceiver supports up to 20km over OS2 SMF via an LC simplex connector. This transceiver is compliant with SFF-8431 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472 . Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet etc.

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SFP-10G-BX-I (20km)

The SFP-10 G-BX-I transceiver supports up to 20km over OS2 SM F via an LC simplex connector . This transceiver is compliant with SFF-8431 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments.

SFP-10G-BX40

The SFP-10 G-BX40 transceiver supports up to 40km over OS2 SMF via an LC simplex connector . This transceiver is compliant with SFF-8431 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet etc.

SFP-10G-BX40-I

The SFP-10G-BX40-I transceiver supports up to 40km link lengths over OS2 SMF via an LC simplex connector. This transceiver is compliant with IEEE 802.3ae, SFP+ MSA, SFF-8472, SFF-8431 and SFF-8432 standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.The SFP-10G- BX40-I is for industrial operating temperature range and can work in harsh industrial environments. It is suitable for 10G Ethernet, OBSAI, CPRI and Data Center applications.

SFP-10G-BX60

The SFP-10 G-BX60 transceiver supports up to 60km over OS2 SMF via an LC simplex connector . This transceiver is compliant with SFF-8431 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet etc.

SFP-10G-BX60-I

The SFP-10G-BX60-I transceiver supports up to 60km link lengths over SMF via a simplex LC connector. This transceiver is compliant with SFF-8432, SFF-8431, SFF-8472, IEEE 802.3ae, 10GBASE-LR standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.The SFP-10G-BX60-I is for industrial operating temperature range and can work in harsh industrial environments, such as telecommunication, data processing and management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

SFP-10G-BX80

The SFP-10 G-BX80 transceiver supports up to 80km over OS2 SMF via an LC simplex connector . This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center, 10G Ethernet, SONET OC-192/SDH and Fiber Channel etc.

SFP-10G-BX80-I

The SFP-10G-BX80-I transceiver supports up to 80km over OS2 SMF via an LC simplex connector . This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of - 40 。C to 85 。C, this industrial fiber optic transceiver can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

SFP-10G-BX100

The SFP-10G-BX100 transceiver supports up to 100km over OS2 SMF via an LC simplex connector. This transceiver is compliant with SFF-8431 and IEEE 802.3ae standard. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for optical data communications such as 10G Ethernet etc.

CWDM-SFP10G-10SP & CWDM-SFP10G-10M

The CWDM-SFP10G-10SP&CWDM-SFP10G-10M transceiver supports up to 10km link lengths over single-mode fiber (SMF) via an LC duplex connector. This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. Featuring low power consumption, high speed, this 10G SFP+ transceiver is ideal for data center and 10G Ethernet etc.

CWxx-10GSFP-10-I

Th e CWxx-10GSFP-10-I transceiver supports up to 10km link lengths over single-mode fiber (SMF) . This transceiver is compliant with SFF-8431 and SFF-8432 MSA standards. Digital diagnostics functions are available via a 2-wire serial interface, as specified in S FF-8472, to allow

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access to real-time operating parameters . With these features, this easy to install, hot swappable transceiver is suitable for fiber communications application up to 10G.

CWDM-SFP10G-40-I

The CWDM-SFP10G-40-I transceiver supports up to 40km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8472 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable for 10G Ethernet and 10G SONET/SDH applications.

CWDM-SFP10G-80L

The CWDM-SFP10G-80L transceiver supports up to 80km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8432 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable for fiber communications application up to 10G.

CWDM-SFP10G-80-I

Th e CWDM-SFP10G-80-I transceiver supports up to 80km link lengths over single-mode fiber (SMF) and is suitable for 10G Ethernet and Data Center applications. It is compliant with IEEE 802.3ae, SFP+ MSA, SFF-8472 and SFF-8431 standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.Th e CWDM-SFP10G-80-I is for industrial operating temperature range and can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

DWDM-SFP10G-40

The DWDM-SFP10G-40 transceiver supports up to 40km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8432 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable to be deployed in the DWDM networking equipment in metropolitan access and core networks.

DWDM-SFP10G-40-I

The DWDM-SFP10G-40-I transceiver supports up to 40km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8432 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. The DWDM-SFP10G-40-I is for industrial operating temperature range and can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

DWDM-SFP10G-80

The DWDM-SFP10G-80 transceiver supports up to 80km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8432 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable to be deployed in the DWDM networking equipment in metropolitan access and core networks.

DWDM-SFP10G-80-I

The DWDM-SFP10G-80-I transceiver supports up to 80km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with S FF-8431 and S FF-8432 MSA standards . Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. The DWDM-SFP10G-80-I is for industrial operating temperature range and can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

DWxxx-10GSFP-100

The DWCxx-10GSFP-100 transceiver supports up to 100km link lengths over single-mode fiber (SMF) via an LC duplex connector. This transceiver is compliant with SFF-8472 MSA standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters. It is suitable to be deployed in the DWDM networking equipment in metropolitan access and core networks.

DWDM-SFP10G-C

The DWDM-SFP10G-C transceiver supports up to 80km link lengths over single-mode fiber (SMF) via an LC duplex connector . This transceiver is compliant with SFF-8431, SFF-8432, SFF-8690 and ITU-T G.698.1 standards. Digital diagnostics functions are available via a 2-

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wire serial interface, as specified in SFF-8472, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable to be deployed in the DWDM networking equipment in metropolitan access and core networks.

SFP-10G-PCxxx & SFP-10G-ACxxx

FS SFP+ Copper Twinax (Figure 2) direct-attach cables are suitable for very short distances and offer a cost- effective way to connect within racks and across adjacent racks. FS offers passive Twinax cables in lengths of 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6 and 7 meters, and active Twinax cables in lengths of 1, 3, 5, 7 and 10 meters or can be customized for longer meters.



Figure 2.

SFP-10G-PCxxx & SFP-10G-ACxxx

SFP-10G-AOxxx

FS SFP+ Active Optical Cables (Figure 3) are direct-attach fiber assemblies with SFP+ connectors. They are suitable for very short distances and offer a cost-effective way to connect within rack s and across adjacent racks. FS offers Active Twinax Cables in lengths of 1, 2, 3, 5, 7, 10, 15, 20, 25 and 30 meters or can be customized for longer meters.

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Figure 3

SFP-10G-AOxxx cables

Product Specifications

Table 2 shows the key electrical characteristics for the 10G SFP+ module

Table 2. Electrical specification

Product	Description	Nominal datarate(Gbs)	Link meter
SFP-10G-T-30	10GBASE-TSFP+Transceiver,RJ-45,30m over Copper Cable	10.3125Gbps	30m
SFP-10G-T-301	10GBASE-TSFP+Transceiver,RJ-45,30m over Copper Cable,I-Temp	10.3125Gbps	30m
SFP-10G-T-80	10GBASE-T SFP+Transceiver,RJ-45,80m over Copper Cable	10.3125Gbps	80m
SFP-10G-T-100	10GBASE-T SFP+Transceiver,RJ-45,100m over Copper Cable	10.3125Gbps	100m
SFP-10GLRM-31	10GBASE LRM SFP+Transceiver, LC, 220m over OM3 MMF	10.3125Gbps	220m
SFP-10GLRM-31-I	10GBASE LRM SFP+Transceiver,LC,220m over OM3 MMF,I-Temp	10.3125Gbps	220m
SFP-10GSR-85	10GBASE SR SFP+Transceiver,LC,300m over OM3 MMF	10.3125Gbps	300m
SFP-10GSR-85-I	10GBASE SR SFP+Transceiver,LC,300m over OM3 MMF, I-Temp	10.3125Gbps	300m
SFP-10GLRL-31	10GBASE LRM SFP+Transceiver,LC2km over OS2 SMF	10.3125Gbps	2km
SFP-10GLRL-31-I	10GBASE LRL SFP+Transceiver,LC,2km over OS2 SMF,I-Temp	10.3125Gbps	2km

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SFP-10GMLR-31	10GBASE LR SFP+Transceiver,LC10km over OS2 SMF,Dual rate	Dual rate 10.3125Gbps and 1Gbps	10km
SFP-10GLR-31	10GBASE LR SFP+Transceiver,LC10km over OS2 SMF	10.3125Gbps	10km
SFP-10GLR-31-1	10GBASE LRSFP+Transceiver,LC10km over OS2 SMF,I-Temp	10.3125Gbps	10km
SFP-10GER-31	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF	10.3125Gbps	40km
SFP-10GER-31-I	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF,I-Temp	10.3125Gbps	40km
SFP-10GER-55	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF	10.3125Gbps	40km
SFP-10GER-55-I	10GBASE ER SFP+Transceiver,LC,40km over OS2 SMF,I-Temp	10.3125Gbps	40km
SFP-10GZR-55	10GBASE ZR SFP+Transceiver,LC,80km over OS2 SMF	10.3125Gbps	80km
SFP-10GZR-55-1	10GBASE ZR SFP+Transceiver,LC,80km over OS2 SMF,I-Temp	10.3125Gbps	80km
SFP-10GZR100-55	10GBASE ZRC SFP+Transceiver,LC100km over OS2 SMF	10.3125Gbps	100km
SFP-10GZR100-55-I	10GBASE ZRCSFP+Transceiver,LC,100km over O52 SMF,I-Temp	10.3125Gbps	100km
SFP-10GZR120-55	10GBASE ZRC SFP+Transceiver,LC,120km over OS2 SMF	10.3125Gbps	120km
SFP-10G-BX	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1270nm/1330nm	10.3125Gbps	10km

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SFP-10G-BX	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1330nm/1270nm	10.3125Gbps	10km
SFP-10G-BX-I	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1270nm/1330nm,H-Temp	10.3125Gbps	10km
SFP-10G-BX-I	10GBASE BXSFP+Transceiver,LC,10km over OS2 SMF,1330nm/1270nm,-Temp	10.3125Gbps	10km
SFP-10G-BX	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1270nm/1330nm	10.3125Gbps	20km
SFP-10G-BX	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1330nm/1270nm	10.3125Gbps	20km
SFP-10G-BX-I	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1270nm/1330nm,-Temp	10.3125Gbps	20km
SFP-10G-BX-I	10GBASE BX20 SFP+Transceiver,LC,20km over OS2 SMF,1330nm/1270nm,-Temp	10.3125Gbps	20km
SFP-10G-BX40	10GBASE BX40 SFP+Transceiver,LC,40km over OS2 SMF,1270nm/1330nm	10.3125Gbps	40km
SFP-10G-BX40	10GBASE BX40 SFP+Transceiver,LC,40km over OS2 SMF,1330nm/1270nm	10.3125Gbps	40km
SFP-10G-BX40-I	hts Reserved	10.3125Gbps	40km
SFP-10G-BX40-I	Description	10.3125Gbps	40km
SFP-10G-BX60	SFP+Transceiver,LC,40km over OS2	10.3125Gbps	60km
SFP-10G-BX60	SMF,1270nm/1330nm,I-Temp	10.3125Gbps	60km
SFP-10G-BX60-I	10GBASE BX40 SFP+Transceiver,LC,40km over OS2	10.3125Gbps	60km
SFP-10G-BX60-1	SMF,1330nm/1270nm,I-Temp	10.3125Gbps	60km

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SFP-10G-BX80	10GBASE BX60 SFP+TransceiverLC,60km over OS2 SMF,1270nm/1330nm	10.3125Gbps	80km
SFP-10G-BX80	10GBASE BX60 SFP+Transceiver,LC,60km over OS2	10.3125Gbps	80km
SFP-10G-BX80-L	SMF,1330nm/1270nm	10.3125Gbps	80km
SFP-10G-BX80-L	10GBASE BX60 SFP+Transceiver,LC,60km over OS2 SMF,1270nm/1330nm,I-Temp	10.3125Gbps	80km
SFP-10G-BX100	10GBASE BX60 SFP+Transceiver,LC,60km over OS2	10.3125Gbps	100km
SFP-10G-BX100	SMF,1330nm/1270nm,I-Temp	10.3125Gbps	100km
CWDM-SFP10G-10SP	10GBASE BX80 SFP+Transceiver,LC,80km over OS2 SMF,1490nm/1550nm	10.3125Gbps	10km
CWDM-SFP10G-10M	10GBASE BX80 SFP+TransceiverLC,80km over OS2 SMF,1550nm/1490nm	10.3125Gbps	10km
CWXX-10GSFP-10-I	10GBASE BX80 SFP+Transceiver,LC,80km over OS2 SMF,1490nm/1550nm,I-Temp	10.3125Gbps	10km
CWDM-SFP10G-20SP	10GBASE BX80 SFP+Transceiver,LC,80km over OS2 SMF,1550nm/1490nm,I-Temp	10.3125Gbps	20km
CWDM-SFP10G-20S	10GBASE BX100 SFP+Transceiver,LC,100km over OS2 SMF,1490nm/1550nm	10.3125Gbps	20km
CWDM-SFP10G-20L	10GBASE BX100 SFP+Transceiver,LC,100km over OS2 SMF,1550nm/1490nm	10.3125Gbps	20km
CWDM-SFP10G-40S	10GBASE CWDM SFP+Transceiver,LC,10km over OS2 SMF,1270nm-1330nm	10.3125Gbps	40km
CWDM-SFP10G-40L	10GBASE CWDM SFP+Transceiver,LC,10km over OS2 SMF,1350nm-1610nm	10.3125Gbps	40km
CWDM-SFP10G-40-I	10GBASE CWDM SFP+Transceiver,LC,10km over O52 SMF,1270nm-1610nm,I-Temp	10.3125Gbps	40km

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CWDM-SFP10G-80L	10GBASE CWDM SFP+Transceiver,LC,20km over OS2 SMF,1270nm-1330nm	10.3125Gbps	80km
CWDM-SFP10G-80-I	10GBASE CWDM SFP+Transceiver,LC,20km over OS2 SMF,1350nm-1450nm	10.3125Gbps	80km
DWDM-SFP10G-40	10GBASE DWDM SFP+Transceiver,LC,40km over OS2 SMF,C17-C61	10.3125Gbps	40km
DWDM-SFP10G-40-1	10GBASE DWDM SFP+Transceiver,LC,40km over OS2 SMF,C17-C61,I-Temp	10.3125Gbps	40km
DWDM-SEP10G-80	10GBASE DWDM SFP+Transceiver,LC,80km over OS2 SMF,C17-C61	10.3125Gbps	80km
DWDM-SFP10G-80-1	10GBASE DWDM SFP+Transceiver,LC,80km over OS2 SMF,C17-C61,I-Temp	10.3125Gbps	80km
DWXXX-10GSFP-100	10GBASE DWDM SFP+Transceiver,LC,100km over OS2 SMF,C17-C61	10.3125Gbps	100km
DWDM-SFP10G-C	10GBASE DWDM SFP+Transceiver,LC,80km over OS2 SMF,Tunable	10.3125Gbps	80km
SFP-10G-PCXXX (0.5M, 1M, 1.5M, 2M, 2.5M, 3M, 4M, 5M, 6M, 7M)	10GBASE SFP+ Passive Copper Cable	10.3125Gbps	0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7
SFP-10G-ACxxx (1M, 3M, 5M, 7M, 10M)	10GBASE SFP+ Active Copper Cable	10.3125Gbps	1, 3， 5, 7 ,10
SFP-10G-AOxxx (1M, 2M, 3M, 5M, 7M, 10M, 15M, 20M, 25M, 30M,	10GBASE SFP+ Active Copper Cable	10.3125Gbps	1, 2, 3, 5, 7, 10, 15, 20, 25, 30

Table 3 shows the key optical characteristics for the 10G SFP+ modules.

Table 3. Optical specifications

Product	Description	Transmit Power (dBm)		Receive Power (dBm)		Transmit andReceiveWavelength (nm)
		Minimum	Maximum	Minimum	Maximum	
SFP-10G-T-30	10GBASE -T SFP+Transceiver, RJ-45, 30m over Copper Cable	-	-	-	-	-
SFP-10G-T-30I	10GBASE -T SFP+Transceiver, RJ-45, 30m over Copper Cable, I-Temp	-	-	-	-	-
SFP-10G-T-80	10GBASE -T SFP+Transceiver, RJ-45, 80m over Copper Cable	-	-	-	-	-

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SFP-10G-T-100	10GBASE -T SFP+Transceiver, RJ-45, 100m over Copper Cable	-	-	-	-	-
SFP-10GLRM-31	10GBASE LRM SFP+Transceiver, LC, 220m over OM3 MMF	-6.5	0.5	-8.4	1.5	1310
SFP-10GLRM-31-I	10GBASE LRM SFP+Transceiver, LC, 220m over OM3 MMF, I-Temp	-8.2	0.5	-14.4	0.5	1310
SFP-10GSR-85	10GBASE SR SFP+Transceiver, LC, 300m over OM3 MMF	-7.3	-1	-11.1	0.5	850
SFP-10GSR-85-I	10GBASE SR SFP+Transceiver, LC, 300m over OM3 MMF, I-Temp	-8	1	-11.1	0.5	850
SFP-10GLRL-31	10GBASE LRM SFP+Transceiver, LC, 2km over OS2 SMF	-8.2	0.5	-12.6	0	1310
SFP-10GLRL-31-I	10GBASE LRL SFP+Transceiver, LC, 2km over OS2SMF, I-Temp	-8.2	0.5	-14.4	0.5	1310
SFP-10GMLR-31	10GBASE LR SFP+Transceiver, LC, 10km over OS2SMF, Dual rate	-8.2	0.5	-14.4	0.5	1310
SFP-10GLR-31	10GBASE LR SFP+Transceiver, LC, 10km over OS2 SMF	-8.2	0.5	-14.4	0.5	1310
SFP-10GLR-31-I	10GBASE LR SFP+Transceiver, LC, 10km over OS2SMF, I-Temp	-8.2	0.5	-12.6	0.5	1310
SFP-10GER-31	10GBASE ER SFP+Transceiver, LC, 40km over OS2 SMF	0	5	-15	1	1310
SFP-10GER-31-I	10GBASE ER SFP+Transceiver, LC, 40km over OS2SMF, I-Temp	0	5	-15	1	1310
SFP-10GER-55	10GBASE ER SFP+Transceiver, LC, 40km over OS2 SMF	-1	4	-16	-1	1550
SFP-10GER-55-I	10GBASE ER SFP+Transceiver, LC, 40km over OS2SMF, I-Temp	-2	4	-16	0	1550
SFP-10GZR-55	10GBASE ZR SFP+Transceiver, LC, 80km over OS2 SMF	0	5	-23	-7	1550
SFP-10GZR-55-I	10GBASE ZR SFP+Transceiver, LC, 80km over OS2SMF, I-Temp	0	5	-23	-8	1550
SFP-10GZR100-55	10GBASE ZRC SFP+Transceiver, LC, 100km over OS2 SMF	0	5	-25	-7	1550
SFP-10GZR100-55-I	10GBASE ZRC SFP+Transceiver, LC, 100km over OS2SMF, I-Temp	1	5	-25	-8	1550
SFP-10GZR120-55	10GBASE ZRC SFP+Transceiver, LC, 120km over OS2 SMF	1	3	6	-8	1550
SFP-10G-BX	10GBASE BX SFP+Transceiver, LC, 10km over OS2SMF, 1270nm/1330nm	-8.2	0.5	-14.4	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX	10GBASE BX SFP+Transceiver, LC, 10km over OS2SMF, 1330nm/1270nm	-8.2	0.5	-14.4	0.5	1330 (Tx)1270 (Rx)

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SFP-10G-BX-I	10GBASE BX SFP+Transceiver, LC, 10km over OS2SMF, 1270nm/1330nm, I-Temp	-8.2	0.5	-14.4	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX-I	10GBASE BX SFP+Transceiver, LC, 10km over OS2SMF, 1330nm/1270nm, I-Temp	-8.2	0.5	-14.4	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX	10GBASE BX20 SFP+Transceiver, LC, 20km over OS2SMF, 1270nm/1330nm	-6	3	-14.4	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX	10GBASE BX20 SFP+Transceiver, LC, 20km over OS2SMF, 1270nm/1330nm	-6	3	-14.4	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX-I	10GBASE BX20 SFP+Transceiver, LC, 20km over OS2SMF, 1270nm/1330nm, I-Temp	-6	3	-14.4	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX-I	10GBASE BX20 SFP+Transceiver, LC, 20km over OS2SMF, 1330nm/1270nm, I-Temp	-6	3	-14.4	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX40	10GBASE BX40 SFP+Transceiver, LC, 40km over OS2SMF, 1270nm/1330nm	1	5	-15	0.5	1270 (Tx/Rx)1330 (Rx/Tx)
SFP-10G-BX40	10GBASE BX40 SFP+Transceiver, LC, 40km over OS2SMF, 1330nm/1270nm	1	5	-15	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX40-I	10GBASE BX40 SFP+Transceiver, LC, 40km over OS2SMF, 1270nm/1330nm, I-Temp	1	5	-15	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX40-I	10GBASE BX40 SFP+Transceiver, LC, 40km over OS2SMF, 1330nm/1270nm, I-Temp	1	5	-15	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX60	10GBASE BX60 SFP+Transceiver, LC, 60km over OS2SMF, 1270nm/1330nm	1	6	-20	0.5	1270 (Tx/Rx)1330 (Rx/Tx)
SFP-10G-BX60	10GBASE BX60 SFP+Transceiver, LC, 60km over OS2SMF, 1330nm/1270nm	1	6	-20	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX60-I	10GBASE BX60 SFP+Transceiver, LC, 60km over OS2SMF, 1270nm/1330nm, I-Temp	1	6	-20	0.5	1270 (Tx)1330 (Rx)
SFP-10G-BX60-I	10GBASE BX60 SFP+Transceiver, LC, 60km over OS2SMF, 1330nm/1270nm, I-Temp	1	6	-20	0.5	1330 (Tx)1270 (Rx)
SFP-10G-BX80	10GBASE BX80 SFP+Transceiver, LC, 80km over OS2SMF, 1490nm/1550nm	0	5	-22	-7	1490 (Tx)1550 (Rx)

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SFP-10G-BX80	10GBASE BX80 SFP+Transceiver, LC, 80km over OS2SMF, 1550nm/1490nm	0	5	-22	-7	1550 (Tx)1490 (Rx)
SFP-10G-BX80-I	10GBASE BX80 SFP+Transceiver, LC, 80km over OS2SMF, 1490nm/1550nm, I-Temp	0	5	-23	-7	1490 (Tx)1550 (Rx)
SFP-10G-BX80-I	10GBASE BX80 SFP+Transceiver, LC, 80km over OS2SMF, 1550nm/1490nm, I-Temp	0	5	-23	-7	1550 (Tx)1490 (Rx)
SFP-10G-BX100	10GBASE BX100 SFP+Transceiver, LC, 100km over OS2SMF, 1490nm/1550nm	1	5	-22	-7	1490 (Tx)1550 (Rx)
SFP-10G-BX100	10GBASE BX100 SFP+Transceiver, LC, 100km over OS2SMF, 1550nm/1490nm	1	5	-22	-7	1550 (Tx)1490 (Rx)
CWDM-SFP10G-10SP	10GBASE CWDM SFP+Transceiver, LC, 10km over OS2SMF, 1270nm-1330nm	-8.2	0.5	-14.4	0.5	1270to 1330
CWDM-SFP10G-10M	10GBASE CWDM SFP+Transceiver, LC, 10km over OS2SMF, 1350nm-1610nm	-8.2	0.5	-14.4	0.5	1350to 1610
CWxx-10GSFP-10-I	10GBASE CWDM SFP+Transceiver, LC, 10km over OS2SMF, 1270nm-1610nm, I-Temp	-2	5	-16	0	1270to 1610
CWDM-SFP10G-20SP	10GBASE CWDM SFP+Transceiver, LC, 20km over OS2SMF, 1270nm-1330nm	-6	2	-14.4	0.5	1270to 1330
CWDM-SFP10G-20S	10GBASE CWDM SFP+Transceiver, LC, 20km over OS2SMF, 1350nm-1450nm	-6	2	-14.4	0.5	1350to 1450
CWDM-SFP10G-20L	10GBASE CWDM SFP+Transceiver, LC, 20km over OS2SMF, 1470nm-1610nm	-1	4	-14.4	0.5	1470to 1610
CWDM-SFP10G-40S	10GBASE CWDM SFP+Transceiver, LC, 40km over OS2SMF, 1270nm-1450nm	0	5	-16	-0.5	1270to 1450
CWDM-SFP10G-40L	10GBASE CWDM SFP+Transceiver, LC, 40km over OS2SMF, 1470nm-1610nm	-1	4	-16	-8	1470to 1610
CWDM-SFP10G-40-I	10GBASE CWDM SFP+Transceiver, LC, 40km over OS2SMF, 1270nm-1610nm, I-Temp	-1	4	-16	0	1270to 1610
CWDM-SFP10G-80L	10GBASE CWDM SFP+Transceiver, LC, 80km over OS2SMF, 1470nm-1610nm	0	4	-23	-8	1470to 1610

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CWDM-SFP10G-80-I	10GBASE CWDM SFP+Transceiver, LC, 80km over OS2SMF, 1470nm-1610nm, I-Temp	0	5	-23	-6	1470to 1610
DWDM-SFP10G-40	10GBASE DWDM SFP+Transceiver, LC, 40km over OS2 SMF, C17-C61	-1	4	-16	0	1563.86to 1528.77
DWDM-SFP10G-40-I	10GBASE DWDM SFP+Transceiver, LC, 40km over OS2SMF, C17-C61, I-Temp	-1	4	-16	0	1563.86to 1528.77
DWDM-SFP10G-80	10GBASE DWDM SFP+Transceiver, LC, 80km over OS2 SMF, C17-C61	0	4	-23	-7	1563.86to 1528.77
DWDM-SFP10G-80-I	10GBASE DWDM SFP+Transceiver, LC, 80km over OS2SMF, C17-C61, I-Temp	0	5	-23	-6	1563.86to 1528.77
DWxxx-10GSFP-100	10GBASE DWDM SFP+Transceiver, LC, 100km over OS2 SMF, C17-C61	1	7	-25	-8	1563.86to 1528.77
DWDM-SFP10G-C	10GBASE DWDM SFP+Transceiver, LC, 80km over OS2SMF, Tunable	0	5	-23	-8	1563.86t o 1528.77

Table 4 shows the mechanical characteristics for the 10G SFP+ modules.

Table 4. Mechanical specifications

Parameter	Product	Weight
Module dimension with pull tab	(H x W x D) 8.5 x 13.4 x 56.5 mm	
Module weight (Max)	Optical modules	
	SFP-10G-PC005	105 g
	SFP-10G-PC01	115 g
	SFP-10G-PC015	130 g
	SFP-10G-PC02	145 g
	SFP-10G-PC025	160 g
	SFP-10G-PC03	170 g
	SFP-10G-PC04	295 g
	SFP-10G-PC05	350 g
	SFP-10G-PC06	395 g
	SFP-10G-PC07	435 g
	SFP-10G-AC01	120 g
	SFP-10G-AC03	160 g
	SFP-10G-AC05	280 g

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	SFP-10G-AC07	360 g
	SFP-10G-AC10	600 g
	SFP-10G-AO01	200 g
	SFP-10G-AO02	220 g
	SFP-10G-AO03	230 g
	SFP-10G-AO05	230 g
	SFP-10G-AO07	280 g
	SFP-10G-AO10	480 g
	SFP-10G-AO15	720 g
	SFP-10G-AO20	960 g
	SFP-10G-AO25	1040 g
	SFP-10G-AO30	1200 g

Warranty

- Standard warranty: 5 years
- For more information for FS Returns & Refunds policy, visit Products Warranty or Returns & Refunds

Ordering information

Table 5 provides the ordering information for SFP+ 10G modules and related cables.

Table 5. Ordering information

Part number	Description
SFP+ Optics Modules	
SFP-10G-T-30	10GBASE -T SFP+ Transceiver, RJ-45, 30m over Copper Cable
SFP-10G-T-30I	10GBASE -T SFP+ Transceiver, RJ-45, 30m over Copper Cable, I-Temp
SFP-10G-T-80	10GBASE -T SFP+ Transceiver, RJ-45, 80m over Copper Cable
SFP-10G-T-100	10GBASE -T SFP+ Transceiver, RJ-45, 100m over Copper Cable
SFP-10GLRM-31	10GBASE LRM SFP+ Transceiver, LC, 220m over OM3 MMF
SFP-10GLRM-31-I	10GBASE LRM SFP+ Transceiver, LC, 220m over OM3 MMF, I-Temp
SFP-10GSR-85	10GBASE SR SFP+ Transceiver, LC, 300m over OM3 MMF
SFP-10GSR-85-I	10GBASE SR SFP+ Transceiver, LC, 300m over OM3 MMF, I-Temp
SFP-10GLRL-31	10GBASE LRM SFP+ Transceiver, LC, 2km over OS2SMF
SFP-10GLRL-31-I	10GBASE LRL SFP+ Transceiver, LC, 2km over OS2SMF, I-Temp
SFP-10GMLR-31	10GBASE LR SFP+ Transceiver, LC, 10km over OS2SMF, Dual rate
SFP-10GLR-31	10GBASE LR SFP+ Transceiver, LC, 10km over OS2 SMF
SFP-10GLR-31-I	10GBASE LR SFP+ Transceiver, LC, 10km over OS2SMF, I-Temp
SFP-10GER-31	10GBASE ER SFP+ Transceiver, LC, 40km over OS2 SMF

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SFP-10GER-31-I	10GBASE ER SFP+ Transceiver, LC, 40km over OS2SMF, I-Temp
SFP-10GER-55	10GBASE ER SFP+ Transceiver, LC, 40km over OS2 SMF
SFP-10GER-55-I	10GBASE ER SFP+ Transceiver, LC, 40km over OS2SMF, I-Temp
SFP-10GZR-55	10GBASE ZR SFP+ Transceiver, LC, 80km over OS2 SMF
SFP-10GZR-55-I	10GBASE ZR SFP+ Transceiver, LC, 80km over OS2SMF, I-Temp
SFP-10GZR100-55	10GBASE ZRC SFP+ Transceiver, LC, 100km over OS2 SMF
SFP-10GZR100-55-I	10GBASE ZRC SFP+ Transceiver, LC, 100km over OS2SMF, I-Temp
SFP-10GZR120-55	10GBASE ZRC SFP+ Transceiver, LC, 120km over OS2 SMF
SFP-10G-BX	10GBASE BX SFP+ Transceiver, LC, 10km over OS2SMF, 1270nm/1330nm
SFP-10G-BX	10GBASE BX SFP+ Transceiver, LC, 10km over OS2SMF, 1330nm/1270nm
SFP-10G-BX-I	10GBASE BX SFP+ Transceiver, LC, 10km over OS2SMF, 1270nm/1330nm, I-Temp
SFP-10G-BX-I	10GBASE BX SFP+ Transceiver, LC, 10km over OS2SMF, 1330nm/1270nm, I-Temp
SFP-10G-BX	10GBASE BX20SFP+ Transceiver, LC, 20km over OS2SMF, 1270nm/1330nm
SFP-10G-BX	10GBASE BX20SFP+ Transceiver, LC, 20km over OS2SMF, 1330nm/1270nm
SFP-10G-BX-I	10GBASE BX20SFP+ Transceiver, LC, 20km over OS2SMF, 1270nm/1330nm, I-Temp
SFP-10G-BX-I	10GBASE BX20SFP+ Transceiver, LC, 20km over OS2SMF, 1330nm/1270nm, I-Temp
SFP-10G-BX40	10GBASE BX40SFP+ Transceiver, LC, 40km over OS2SMF, 1270nm/1330nm
SFP-10G-BX40	10GBASE BX40SFP+ Transceiver, LC, 40km over OS2SMF, 1330nm/1270nm
SFP-10G-BX40-I	10GBASE BX40SFP+ Transceiver, LC, 40km over OS2SMF, 1270nm/1330nm, I-Temp
SFP-10G-BX40-I	10GBASE BX40SFP+ Transceiver, LC, 40km over OS2SMF, 1330nm/1270nm, I-Temp
SFP-10G-BX60	10GBASE BX60SFP+ Transceiver, LC, 60km over OS2SMF, 1270nm/1330nm
SFP-10G-BX60	10GBASE BX60SFP+ Transceiver, LC, 60km over OS2SMF, 1330nm/1270nm
SFP-10G-BX60-I	10GBASE BX60SFP+ Transceiver, LC, 60km over OS2SMF, 1270nm/1330nm, I-Temp
SFP-10G-BX60-I	10GBASE BX60SFP+ Transceiver, LC, 60km over OS2SMF, 1330nm/1270nm, I-Temp
SFP-10G-BX80	10GBASE BX80SFP+ Transceiver, LC, 80km over OS2SMF, 1490nm/1550nm
SFP-10G-BX80	10GBASE BX80SFP+ Transceiver, LC, 80km over OS2SMF, 1550nm/1490nm
SFP-10G-BX80-I	10GBASE BX80SFP+ Transceiver, LC, 80km over OS2SMF, 1490nm/1550nm, I-Temp
SFP-10G-BX80-I	10GBASE BX80SFP+ Transceiver, LC, 80km over OS2SMF, 1550nm/1490nm, I-Temp
SFP-10G-BX100	10GBASE BX100SFP+ Transceiver, LC, 100km over OS2SMF, 1490nm/1550nm
SFP-10G-BX100	10GBASE BX100SFP+ Transceiver, LC, 100km over OS2SMF, 1550nm/1490nm
CWDM-SFP10G-10SP	10GBASE CWDM SFP+ Transceiver, LC, 10km over OS2SMF, 1270nm-1330nm
CWDM-SFP10G-10M	10GBASE CWDM SFP+ Transceiver, LC, 10km over OS2SMF, 1350nm-1610nm
CWxx-10GSFP-10-I	10GBASE CWDM SFP+ Transceiver, LC, 10km over OS2SMF, 1270nm-1610nm, I-Temp

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CWDM-SFP10G-20SP	10GBASE CWDM SFP+ Transceiver, LC, 20km over OS2SMF, 1270nm-1330nm
CWDM-SFP10G-20S	10GBASE CWDM SFP+ Transceiver, LC, 20km over OS2SMF, 1350nm-1450nm
CWDM-SFP10G-20L	10GBASE CWDM SFP+ Transceiver, LC, 20km over OS2SMF, 1470nm-1610nm
CWDM-SFP10G-40S	10GBASE CWDM SFP+ Transceiver, LC, 40km over OS2SMF, 1270nm-1450nm
CWDM-SFP10G-40L	10GBASE CWDM SFP+ Transceiver, LC, 40km over OS2SMF, 1470nm-1610nm
CWDM-SFP10G-40-I	10GBASE CWDM SFP+ Transceiver, LC, 40km over OS2SMF, 1270nm-1610nm, I-Temp
CWDM-SFP10G-80L	10GBASE CWDM SFP+ Transceiver, LC, 80km over OS2 SMF, 1470nm-1610nm
CWDM-SFP10G-80-I	10GBASE CWDM SFP+ Transceiver, LC, 80km over OS2SMF, 1470nm-1610nm, I-Temp
DWDM-SFP10G-40	10GBASE DWDM SFP+ Transceiver, LC, 40km over OS2SMF, C17-C61
DWDM-SFP10G-40-I	10GBASE DWDM SFP+ Transceiver, LC, 40km over OS2SMF, C17-C61, I-Temp
DWDM-SFP10G-80	10GBASE DWDM SFP+ Transceiver, LC, 80km over OS2SMF, C17-C61
DWDM-SFP10G-80-I	10GBASE DWDM SFP+ Transceiver, LC, 80km over OS2SMF, C17-C61, I-Temp
DWxxx-10GSFP-100	10GBASE DWDM SFP+ Transceiver, LC, 100km over OS2SMF, C17-C61
DWDM-SFP10G-C	10GBASE DWDM SFP+ Transceiver, LC, 80km over OS2SMF, Tunable
SFP-10G-PC005	10GBASE SFP+ Passive Copper Cable, 0.5-meter
SFP-10G-PC01	10GBASE SFP+ Passive Copper Cable, 1-meter
SFP-10G-PC015	10GBASE SFP+ Passive Copper Cable, 1.5-meter
SFP-10G-PC02	10GBASE SFP+ Passive Copper Cable, 2-meter
SFP-10G-PC025	10GBASE SFP+ Passive Copper Cable, 2.5-meter
SFP-10G-PC03	10GBASE SFP+ Passive Copper Cable, 3-meter
SFP-10G-PC04	10GBASE SFP+ Passive Copper Cable, 4-meter
SFP-10G-PC05	10GBASE SFP+ Passive Copper Cable, 5-meter
SFP-10G-PC06	10GBASE SFP+ Passive Copper Cable, 6-meter
SFP-10G-PC07	10GBASE SFP+ Passive Copper Cable, 7-meter
SFP-10G-AC01	10GBASE SFP+ Active Copper Cable, 1-meter
SFP-10G-AC03	10GBASE SFP+ Active Copper Cable, 3-meter
SFP-10G-AC05	10GBASE SFP+ Active Copper Cable, 5-meter
SFP-10G-AC07	10GBASE SFP+ Active Copper Cable, 7-meter
SFP-10G-AC10	10GBASE SFP+ Active Copper Cable, 10-meter
SFP+ Optics Cables	
SFP-10G-AO01	10GBASE SFP+ Active Optical Cable, 1-meter
SFP-10G-AO02	10GBASE SFP+ Active Optical Cable, 2-meter
SFP-10G-AO03	10GBASE SFP+ Active Optical Cable, 3-meter
SFP-10G-AO05	10GBASE SFP+ Active Optical Cable, 5-meter

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SFP-10G-AO07	10GBASE SFP+ Active Optical Cable, 7-meter
SFP-10G-AO10	10GBASE SFP+ Active Optical Cable, 10-meter
SFP-10G-AO15	10GBASE SFP+ Active Optical Cable, 15-meter
SFP-10G-AO20	10GBASE SFP+ Active Optical Cable, 20-meter
SFP-10G-AO25	10GBASE SFP+ Active Optical Cable, 25-meter
SFP-10G-AO30	10GBASE SFP+ Active Optical Cable, 30-meter

Regulatory and standards compliance

Standards

• GR-20-CORE: Generic Requirements for Optical Fiber and Optical Fiber Cable

• GR-326-CORE: Generic Requirements for Single-Mode Optical Connectors and Jumper Assemblies

• GR-1435-CORE: Generic Requirements for Multifiber Optical Connectors

• IEEE 802.3: 10-Gigabit Ethernet

• ITU-T G.709: Interfaces for the Optical Transport Network

• ITU-T G.975: GFEC

• ITU-T G.975.1: EFEC

• SFP+ MSA SFF-8431 (Optical Modules, Active Optical Cables, and Passive Twinax cables)

• SFP+ MSA SFF-8461 (Active Twinax cables)

Safety

• Laser Class 1 21CFR-1040 LN#50 7/2001

• Laser Class 1 IEC60825-1

• Cable jacket of SFP+ copper modules is UL #E116441 Compliant

• All length SFP+ copper cables are ELV and RoHS Compliant

Table 6. Laser class for the SFP+ 10G optical modules

Product	Laser class
SFP-10GSR-85	1
SFP-10GSR-85-I	1
SFP-10GLRM-31	1
SFP-10GLRM-31-I	1
SFP-10GLRM-31	1
SFP-10GLRL-31-I	1
SFP-10GLR-31	1
SFP-10GLR-31(Dual rate)	1
SFP-10GLR-31-I	1

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SFP-10GER-31	1
SFP-10GER-31-I	1
SFP-10GER-55	1
SFP-10GER-55-I	1
SFP-10GZR-55	1
SFP-10GZR-55-I	1
SFP-10GZR100-55	1
SFP-10GZR100-55-I	1
SFP-10GZR120-55	1
SFP-10G-BX	1
SFP-10G-BX-I	1
SFP-10G-BX40	1
SFP-10G-BX40-I	1
SFP-10G-BX60	1
SFP-10G-BX60-I	1
SFP-10G-BX80	1
SFP-10G-BX80-I	1
SFP-10G-BX100	1
CWDM-SFP10G-10SP	1
CWDM-SEP10G-10M	1
CWXX-10GSFP-10-I	1
CWDM-SFP10G-20SP	1
CWDM-SFP10G-20S	1
CWDM-SFP10G-20L	1
CWDM-SFP10G-40S	1
CWDM-SFP10G-40L	1
CWDM-SFP10G-40-I	1
CWDM-SFP10G-80L	1
CWDM-SFP10G-80L-I	1
DWDM-SFP10G-40	1
DWDM-SFP10G-40-1	1
DWDM-SFP10G-80	1
DWDM-SFP10G-80-1	1
DWXXX-10GSFP-100	1

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DWDM-SFP10G-C	1
SFP-10G-AOxxx	1

Additional information

For more information about 10GBASE SFP+ optics and copper modules, contact your account manager or visit 10G Modules

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