

OPTICAL CONNECTIVITY

Optical Transceivers

and cable assemblies

800G to 155M optical modules

Copper • 1x9 • AOC / DAC

NDR • HDR • EDR



Choose the module around the link.

Match the host interface, data rate, fiber type, wavelength and reach.
Use the model pages to review the stated optical and electrical limits.

Find the family. Then match the complete link.

Start with the host port, data rate, optical path and cable or connector arrangement.

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Three details to include with your inquiry

Host and port

Equipment model, coding, port mode, lane mapping and required FEC.

Optical path

Fiber type, wavelength pair, connector and the complete optical budget.

Operating conditions

Temperature range, route length and the selected cable or module configuration.

800G QSFP-DD / OSFP

800G optical modules



800G optical interfaces for high-density network links. The range includes DR8, dual SR4, dual DR4 and dual FR4 configurations.

Match the OSFP or QSFP-DD host cage, optical connector and link budget to the selected row.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-QDD-800G-DR8	800G	1310nm	500m	EML/PIN	-2.9~4	<-5.9	1xMPO-16/APC	0-70
YXF-OSFP-800G-2SR4	800G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	2xMPO-12/APC	0-70
YXF-OSFP-800G-2DR4	800G	1310nm	100m	EML/PIN	-2.9~4	<-5.9	2xMPO-12/APC	0-70
YXF-OSFP-800G-2DR4+	800G	1310nm	500m	EML/PIN	-2~4	<-6.2	2xMPO-12/APC	0-70
YXF-OSFP-800G-2FR4	800G	1310nm	2km	EML/PIN	-3.2~4.4	<-7.2	2xLC	0-70

400G QSFP-DD / OSFP / QSFP112

400G optical modules



400G modules cover multimode, single-mode and coherent ZR/ZR+ configurations. Distances, optical sources and power limits vary by model and operating mode.

For coherent configurations, observe the SOA condition stated in the distance column; reach is not an unconditional link guarantee.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-QDD-400G-SR8	400G	850nm	100m	VCSEL/PIN	-6.5~4	<-8.4	MPO-16/APC	0~70
YXF-QDD-400G-SR4	400G	850nm	100m	VCSEL/PIN	-4.6~4	<-6.3	MPO-12/APC	0~70
YXF-QDD-400G-DR4	400G	1310nm	500m	DFB/PIN	-2.9~4	<-5.9	MPO-12/APC	0~70
YXF-QDD-400G-DR4+	400G	1310nm	2km	DFB/PIN	-2~4	<-7.1	MPO-12/APC	0~70
YXF-QDD-400G-FR4	400G	1310nm	2km	EML/PIN	-3.3~3.5	<-7.3	LC	0~70
YXF-QDD-400G-LR4	400G	1310nm	10km	EML/PIN	-2.7~5.1	<-9.1	LC	0~70
YXF-QDD-400G-LR8	400G	1310nm	10km	DML/PIN	-2.8~5.3	<-9.1	LC	0~70
YXF-QDD-400G-PLR4	400G	1310nm	10km	EML/PIN	-1.9~4.5	<-7.7	MPO-12/APC	0~70
YXF-QDD-400G-ER4	400G	1310nm	40km	EML/SOA PIN	1.5~7.1	<-16.2	LC	0~70
YXF-QDD-400G-ZR+	400G ZR	C-band tunable	120km (Need SOA)	ICTR	-10~-6	<-12	LC	0~70

400G QSFP-DD / OSFP / QSFP112

400G optical modules



400G modules cover multimode, single-mode and coherent ZR/ZR+ configurations. Distances, optical sources and power limits vary by model and operating mode.

For coherent configurations, observe the SOA condition stated in the distance column; reach is not an unconditional link guarantee.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-QDD-400G-ZR+	400G ZR	C-band tunable	30~40km (NO SOA)	ICTR	-9~-6	<-12	LC	0~70
YXF-QDD-400G-ZR+	400G ZR+	C-band tunable	450km (Need SOA)	ICTR	-10~-6	<-12	LC	0~70
YXF-QDD-400G-ZR+	300G ZR+	C-band tunable	600km (Need SOA)	ICTR	-10~-6	<-15	LC	0~70
YXF-QDD-400G-ZR+	200G ZR+	C-band tunable	1000km (Need SOA)	ICTR	-9~-5	<-18	LC	0~70
YXF-QDD-400G-ZR+	100G ZR+	C-band tunable	1000km (Need SOA)	ICTR	-8~-4	<-18	LC	0~70
YXF-OSFP-400G-SR4	400G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	MPO-12/APC	0~70
YXF-OSFP-400G-DR4	400G	1310nm	500m	DFB/PIN	-2.9~4	<-5.9	MPO-12/APC	0~70
YXF-Q112-400G-SR4	400G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	MPO-12/APC	0~70
YXF-Q112-400G-DR4	400G	1310nm	100m	EML/PIN	-2.9~4	<-5.9	MPO-12/APC	0~70

200G QSFP56/ QSFP-DD

200G optical modules



200G optical configurations include SR4, FR4 and LR4, plus a QSFP-DD dual-SR4 option. The table specifies each housing reference and optical interface.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-QDD-200G-2SR4	200G	850nm	100m	VCSEL/PIN	-8.4~2.4	<-10.3	MPO-24/UPC	0-70
YXF-Q56-200G-SR4	200G	850nm	100m	VCSEL/PIN	-6.5~4	<-8.4	MPO-12/UPC	0-70
YXF-Q56-200G-FR4	200G	1310nm	2km	DFB/PIN	-4.2~4.7	<-8.2	LC	0-70
YXF-Q56-200G-LR4	200G	1310nm	10km	DFB/PIN	-3.4~5.3	<-9.7	LC	0-70

100G QSFP28

100G duplex / parallel / CWDM4



100G QSFP28 options include multimode, parallel single-mode, CWDM4 and single- fiber bidirectional configurations. Selected 112G OTU4 references are listed separately.

For BiDi links, pair complementary Tx/Rx wavelengths and verify that both ends support the same data rate and reach.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-Q28-M85L-01D	100G	850nm	150m	VCSEL/PIN	-6~4	<-9.5	LC	0-70
YXF-Q28-M85M-01D	100G	850nm	100m	VCSEL/PIN	-8.4~2.4	<-10.3	MPO-12/UPC	0-70
YXF-Q28-S31M-2D	100G	1310nm	2km	DFB/PIN	-9.4~2.0	<-12	MPO-12/UPC	0-70
YXF-Q28-S31L-10D	100G	1310nm	10km	DFB/PIN	-4.3~4.5	<-8.6	LC	0-70
YXF-Q28-S31M-10D	100G	1310nm	10km	DFB/PIN	-6.5~2.5	<-12	MPO-12/UPC	0-70
YXF-Q28-S31L-20D	100G	1310nm	20km	DFB/PIN	-4.3~4.5	<-10.6	LC	0-70
YXF-Q28-S31L-30D	100G	1310nm	30km	EML/APD	-2.5~4.5	<-17	LC	0-70
YXF-Q28-S31L-40D	100G	1310nm	40km	EML/APD	-2.5~6.5	<-18	LC	0-70
YXF-Q28-S31L-80D	100G	1310nm	80km	EML/SOA PIN	1~6.5	<-28	LC	0-70
YXF-Q28-S31L-100D	100G	1310nm	100km	EML/SOA PIN	4~7.5	<-32	LC	0-70
YXF-Q28-100G-CWDM4	100G	1271/1291/1311/1331	2km	DML/PIN	-6.5~2.5	<-11.5	LC	0-70
YXF-Q28-100G-CWDM4+	100G	1271/1291/1311/1331	10km	DML/PIN	-4~2.5	<-12	LC	0-70

100G QSFP28

100G BiDi / single-lambda / 112G OTU4



100G QSFP28 options include multimode, parallel single-mode, CWDM4 and single- fiber bidirectional configurations. Selected 112G OTU4 references are listed separately.

For BiDi links, pair complementary Tx/Rx wavelengths and verify that both ends support the same data rate and reach.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-112G-S31L-10D	112G (OTU4)	1310nm	10km	DFB/PIN	-4.3~4.5	<-8.6	LC	0-70
YXF-112G-S31L-40D	112G (OTU4)	1310nm	40km	EML/APD	-2.5~6.5	<-18	LC	0-70
YXF-Q28-DR-05D	100G	1310nm	500m	EML/PIN	-2.9~4	<-5.9	LC	0-70
YXF-Q28-FR-2D	100G	1310nm	2km	EML/PIN	-2.4~4	<-6.4	LC	0-70
YXF-Q28-LR-10D	100G	1310nm	10km	EML/PIN	-1.4~4.5	<-7.7	LC	0-70
YXF-Q28-ER-40D	100G	1310nm	40km	EML/PIN	1.7~7.1	<-16	LC	0-70
YXF-Q28-B23L-10D	100G	Tx1271nm/Rx1331nm	10km	DFB/PIN	-1.4~4.5	<-7.7	Simplex LC	0-70
YXF-Q28-B32L-10D	100G	Tx1331nm/Rx1271nm	10km	DFB/PIN	-1.4~4.5	<-7.7	Simplex LC	0-70
YXF-Q28-B23L-20D	100G	Tx1271nm/Rx1331nm	20km	DFB/PIN	-0.2~6.6	<-10	Simplex LC	0-70
YXF-Q28-B32L-20D	100G	Tx1331nm/Rx1271nm	20km	DFB/PIN	-0.2~6.6	<-10	Simplex LC	0-70
YXF-Q28-B49L-40D	100G	Tx1304nm/Rx1309nm	40km	EML/APD	1.5~7.1	<-16.2	Simplex LC	0-70
YXF-Q28-B94L-40D	100G	Tx1309nm/Rx1304nm	40km	EML/APD	1.5~7.1	<-16.2	Simplex LC	0-70
YXF-Q28-B23L-80D	100G	Tx1280nm/Rx1304nm	80km	EML/SOA PIN	2~6.5	<-28	Simplex LC	0-70
YXF-Q28-B32L-80D	100G	Tx1304nm/Rx1280nm	80km	EML/SOA PIN	2~6.5	<-28	Simplex LC	0-70

40G QSFP+

40G optical modules



40G QSFP+ configurations span short-reach multimode and extended-reach single- mode links, with LC or MPO optical interfaces.

The 40 km YXF-QP-S31L-40D is listed with PIN and APD receiver options. Please specify the receiver option when requesting a datasheet or quotation.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-QP-M85M-01D	40G	850nm	100m	VCSEL/PIN	-7.5~2	<-10.3	MPO	0~70
YXF-QP-M85L-03D	40G	850nm/880nm/910nm/940nm	300m	VCSEL/PIN	-4~5	<-7	LC	0~70
YXF-QP-S31L-02D	40G	1310nm	2km	DFB/PIN	-7~2.3	<-11.5	LC	0~70
YXF-QP-S31M-02D	40G	1310nm	2km	DFB/PIN	-8.2~0.5	<-12.6	MPO	0~70
YXF-QP-S31L-2D	40G	1310nm	M:100m/S: 2km	DFB/PIN	M: -5 - 3.5 S:-7-0	M: <-7 S: <-11.7	LC	0~70
YXF-QP-S31M-10D	40G	1310nm	10km	DFB/PIN	-6.2~0.5	<-12.6	MPO	0~70
YXF-QP-S31L-10D	40G	1310nm	10km	DFB/PIN	-7~2.3	<-11.5	LC	0~70
YXF-QP-S31L-20D	40G	1310nm	20km	DFB/PIN	-5~2.3	<-12	LC	0~70
YXF-QP-S31L-40D	40G	1310nm	40km	DFB/PIN	0~5	<-13	LC	0~70
YXF-QP-S31L-40D	40G	1310nm	40km	DFB/APD	0~5	<-21	LC	0~70
YXF-QP-S31L-60D	40G	1310nm	60km	DFB/APD	1~5	<-22	LC	0~70
YXF-QP-S31L-80D	40G	1310nm	80km	LWDM EML/APD	2~7	<-24	LC	0~70
YXF-QP-S55L-100D	40G	1550nm	100km	DWDM EML/APD	1~5	<-25	LC	0~70

25G SFP28

25G duplex and BiDi



25G SFP28 transceivers offer dual-fiber, single-fiber BiDi, CWDM and DWDM options for a range of network connections. Available configurations include 850 nm and 1310 nm optics, complementary BiDi wavelength pairs and wavelength-specific CWDM/DWDM models.

BiDi models require matched complementary wavelengths. CWDM and DWDM channel selection must be specified with the order.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-S28-M85L-01D	25G	850nm	100m	VCSEL/PIN	-8.4~2.4	<-10	LC	0~70
YXF-S28-M85L-03D	25G	850nm	300m	VCSEL/PIN	-5~3	<-10	LC	0~70
YXF-S28-M31L-03D	25G	1310nm	300m	DFB/PIN	-4.5~2	<-10.5	LC	0~70
YXF-S28-S31L-10D	25G	1310nm	10km	DFB/PIN	-5~5	<-11.5	LC	0~70
YXF-S28-S31L-20D	25G	1310nm	20km	DFB/PIN	-3~5	<-12	LC	0~70
YXF-S28-S31L-30D	25G	1310nm	30km	DFB/APD	-2~4	<-19	LC	0~70
YXF-S28-S31L-40D	25G	1310nm	40km	DFB/APD	0~6	<-19	LC	0~70
YXF-S28-S31L-80D	25G	1310nm	80km	EML/SOA PIN	2~7	<-28	LC	0~70
YXF-S28-B23L-10D	25G	Tx1270nm/Rx1330nm	10km	DFB/PIN	-4~4	<-11	Simplex LC	0~70
YXF-S28-B32L-10D	25G	Tx1330nm/Rx1270nm	10km	DFB/PIN	-4~4	<-11	Simplex LC	0~70
YXF-S28-B23L-20D	25G	Tx1270nm/Rx1330nm	20km	DFB/PIN	-2~4	<-12	Simplex LC	0~70
YXF-S28-B32L-20D	25G	Tx1330nm/Rx1270nm	20km	DFB/PIN	-2~4	<-12	Simplex LC	0~70

25G SFP28

25G BiDi / CWDM / DWDM



25G SFP28 transceivers offer dual-fiber, single-fiber BiDi, CWDM and DWDM options for a range of network connections. Available configurations include 850 nm and 1310 nm optics, complementary BiDi wavelength pairs and wavelength-specific CWDM/DWDM models.

BiDi models require matched complementary wavelengths. CWDM and DWDM channel selection must be specified with the order.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-S28-B32L-40D	25G	Tx1330nm/Rx1270nm	40km	DFB/APD	0~6	<-18	Simplex LC	0~70
YXF-S28-B23L-40D	25G	Tx1270nm/Rx1330nm	40km	DFB/APD	0~6	<-18	Simplex LC	0~70
YXF-S28-B23L-50D	25G	Tx1270nm/Rx1310nm	50km	DFB/APD	1~6	<-19	Simplex LC	0~70
YXF-S28-B32L-50D	25G	Tx1310nm/Rx1270nm	50km	DFB/APD	1~6	<-19	Simplex LC	0~70
YXF-S28-B59L-80D	25G	Tx1295nm/Rx1309nm	80km	EML/SOA PIN	1~7	<-27	Simplex LC	0~70
YXF-S28-B95L-80D	25G	Tx1309nm/Rx1295nm	80km	EML/SOA PIN	1~7	<-27	Simplex LC	0~70
YXF-S28-CXXL-10D	25G	1271nm ~ 1371nm	10km	CWDM DFB/PIN	0~7	<-14	LC	0~70
YXF-S28-DXXL-10D	25G	C18-C61	10km	EML/PIN	-3~6	<-14.5	LC	0~70

10G SFP+ / XFP

10G SFP+ optical modules



The 10G range covers SFP+, XFP, duplex and single-fiber BiDi modules, with additional CWDM/DWDM wavelength choices.

SFP+ and XFP are distinct host form factors. Match the model prefix, connector, wavelength pair and receiver sensitivity before selection.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-PP-M85L-03D	10G	850nm	300m	VCSEL/PIN	-6~1	<-11	LC	0~70
YXF-PP-S31L-2D	10G	1310nm	2km	FP/PIN	-7~1	<-12	LC	0~70
YXF-PP-S31L-10D	10G	1310nm	10km	DFB/PIN	-7~1	<-14	LC	0~70
YXF-PP-S31L-20D	10G	1310nm	20km	DFB/PIN	-5~1	<-14.5	LC	0~70
YXF-PP-S31L-40D	10G	1310nm	40km	DFB/PIN	-2~5	<-15	LC	0~70
YXF-PP-S55L-40D	10G	1550nm	40km	EML/PIN	-2~5	<-15	LC	0~70
YXF-PP-S55L-80D	10G	1550nm	80km	EML/APD	-1~5	<-23	LC	0~70
YXF-PP-S55L-100D	10G	1550nm	100km	EML/APD	-1~5	<-25	LC	0~70
YXF-PP-S55L-110D	10G	1550nm	110km	EML/APD	0~5	<-25	LC	0~70
YXF-PP-B23L-10D	10G	Tx1270nm/Rx1330nm	10km	DFB/PIN	-7~1	<-14	Simplex LC	0~70
YXF-PP-B32L-10D	10G	Tx1330nm/Rx1270nm	10km	DFB/PIN	-7~1	<-14	Simplex LC	0~70

10G SFP+ / XFP

10G SFP+ optical modules



The 10G range covers SFP+, XFP, duplex and single-fiber BiDi modules, with additional CWDM/DWDM wavelength choices.

SFP+ and XFP are distinct host form factors. Match the model prefix, connector, wavelength pair and receiver sensitivity before selection.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-PP-B23L-20D	10G	Tx1270nm/Rx1330nm	20km	DFB/PIN	-6~1	<-14	Simplex LC	0~70
YXF-PP-B32L-20D	10G	Tx1330nm/Rx1270nm	20km	DFB/PIN	-6~1	<-14	Simplex LC	0~70
YXF-PP-B23L-40D	10G	Tx1270nm/Rx1330nm	40km	DFB/PIN	1~5	<-15	Simplex LC	0~70
YXF-PP-B32L-40D	10G	Tx1330nm/Rx1270nm	40km	DFB/PIN	1~5	<-15	Simplex LC	0~70
YXF-PP-B23L-60D	10G	Tx1270nm/Rx1330nm	60km	DFB/APD	1~5	<-20	Simplex LC	0~70
YXF-PP-B32L-60D	10G	Tx1330nm/Rx1270nm	60km	DFB/APD	1~5	<-20	Simplex LC	0~70
YXF-PP-B45L-80D	10G	Tx1490nm/Rx1550nm	80km	EML/APD	0~5	<-23	Simplex LC	0~70
YXF-PP-B54L-80D	10G	Tx1550nm/Rx1490nm	80km	EML/APD	0~5	<-23	Simplex LC	0~70
YXF-PP-B45L-100D	10G	Tx1490nm/Rx1550nm	100km	EML/APD	1~5	<-25	Simplex LC	0~70
YXF-PP-B54L-100D	10G	Tx1550nm/Rx1490nm	100km	EML/APD	1~5	<-25	Simplex LC	0~70

10G SFP+ / XFP

10G XFP optical modules



The 10G range covers SFP+, XFP, duplex and single-fiber BiDi modules, with additional CWDM/DWDM wavelength choices.

SFP+ and XFP are distinct host form factors. Match the model prefix, connector, wavelength pair and receiver sensitivity before selection.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-XP-M85L-03D	10G	850nm	300m	VCSEL/PIN	-6~1	<-11	LC	0~70
YXF-XP-S31L-2D	10G	1310nm	2km	FP/PIN	-7~1	<-12	LC	0~70
YXF-XP-S31L-10D	10G	1310nm	10km	DFB/PIN	-7~1	<-14	LC	0~70
YXF-XP-S31L-20D	10G	1310nm	20km	DFB/PIN	-6~1	<-14	LC	0~70
YXF-XP-S31L-40D	10G	1310nm	40km	DFB/PIN	-6~1	<-15	LC	0~70
YXF-XP-S55L-40D	10G	1550nm	40km	EML/PIN	-2~5	<-15	LC	0~70
YXF-XP-S55L-80D	10G	1550nm	80km	EML/APD	-1~5	<-23	LC	0~70
YXF-XP-S55L-100D	10G	1550nm	100km	EML/APD	-1~5	<-25	LC	0~70
YXF-XP-S55L-120D	10G	1550nm	120km	EML/APD	0~5	<-25	LC	0~70
YXF-XP-B23L-10D	10G	Tx1270nm/Rx1330nm	10km	DFB/PIN	-7~1	<-14	Simplex LC	0~70

10G SFP+ / XFP

10G XFP optical modules



The 10G range covers SFP+, XFP, duplex and single-fiber BiDi modules, with additional CWDM/DWDM wavelength choices.

SFP+ and XFP are distinct host form factors. Match the model prefix, connector, wavelength pair and receiver sensitivity before selection.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-XP-B32L-10D	10G	Tx1330nm/Rx1270nm	10km	DFB/PIN	-7~1	<-14	Simplex LC	0~70
YXF-XP-B23L-20D	10G	Tx1270nm/Rx1330nm	20km	DFB/PIN	-6~1	<-14	Simplex LC	0~70
YXF-XP-B32L-20D	10G	Tx1330nm/Rx1270nm	20km	DFB/PIN	-6~1	<-14	Simplex LC	0~70
YXF-XP-B23L-40D	10G	Tx1270nm/Rx1330nm	40km	DFB/PIN	1~5	<-15	Simplex LC	0~70
YXF-XP-B32L-40D	10G	Tx1330nm/Rx1270nm	40km	DFB/PIN	1~5	<-15	Simplex LC	0~70
YXF-XP-B23L-60D	10G	Tx1270nm/Rx1330nm	60km	DFB/APD	1~5	<-23	Simplex LC	0~70
YXF-XP-B32L-60D	10G	Tx1330nm/Rx1270nm	60km	DFB/APD	1~5	<-23	Simplex LC	0~70
YXF-XP-CXXL-40D	10G	1470 ~ 1610nm	40km	EML/PIN	1~4	<-16	LC	0~70
YXF-XP-CXXL-80D	10G	1470 ~ 1610nm	80km	EML/APD	0~5	<-23	LC	0~70

10G SFP+ / XFP

10G CWDM / DWDM optical modules



The 10G range covers SFP+, XFP, duplex and single-fiber BiDi modules, with additional CWDM/DWDM wavelength choices.

SFP+ and XFP are distinct host form factors. Match the model prefix, connector, wavelength pair and receiver sensitivity before selection.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-PP-CXXL-10D	10G	1270nm~1610nm	10km	DFB/PIN	-4~4	<-14	LC	0~70
YXF-PP-CXXL-20D	10G	1270nm~1610nm	20km	DFB/PIN	-3~4	<-14	LC	0~70
YXF-PP-DXXL-40D	10G	CH17~CH61	40km	EML/PIN	-2~5	<-15	LC	0~70
YXF-PP-DXXL-60D	10G	CH17~CH61	60km	EML/APD	-2~5	<-23	LC	0~70
YXF-PP-DXXL-80D	10G	CH17~CH61	80km	EML/APD	1~5	<-23	LC	0~70
YXF-PP-DXXL-100D	10G	CH17~CH61	100km	EML/APD	1~5	<-25	LC	0~70

2.5G SFP

2.5G duplex and BiDi



2.5G SFP configurations include multimode, single-mode and BiDi links. Dual-fiber options use LC, while the listed single-fiber variants offer simplex LC or SC.

The model table is the selection baseline for wavelength, Tx power, sensitivity, distance and operating temperature.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-2G-M85L-03D	2.5G	850nm	300m	VCSEL/PIN	-10~-3	<-18	LC	0~70
YXF-2G-S31L-2D	2.5G	1310nm	2km	FP/PIN	-9~-3	<-18	LC	0~70
YXF-2G-S31L-10D	2.5G	1310nm	10km	DFB/PIN	-6~0	<-18	LC	0~70
YXF-2G-S31L-20D	2.5G	1310nm	20km	DFB/PIN	-4~0	<-18	LC	0~70
YXF-2G-S31L-40D	2.5G	1310nm	40km	DFB/PIN	-5~3	<-20	LC	0~70
YXF-2G-S55L-40D	2.5G	1550nm	40km	DFB/PIN	-5~3	<-20	LC	0~70
YXF-2G-S55L-80D	2.5G	1550nm	80km	DFB/PIN	-2~3	<-27	LC	0~70
YXF-2G-S55L-100D	2.5G	1550nm	100km	DFB/PIN	0~5	<-27	LC	0~70
YXF-2G-S55L-120D	2.5G	1550nm	120km	DFB/PIN	0~6	<-29	LC	0~70
YXF-2G-B35L/S-20D	2.5G	Tx1310nm/Rx1550nm	20km	DFB/PIN	-6~0	<-18	Simplex LC/SC	0~70
YXF-2G-B53L/S-20D	2.5G	Tx1550nm/Rx1310nm	20km	DFB/PIN	-6~0	<-18	Simplex LC/SC	0~70

2.5G SFP

2.5G duplex and BiDi



2.5G SFP configurations include multimode, single-mode and BiDi links. Dual-fiber options use LC, while the listed single-fiber variants offer simplex LC or SC.

The model table is the selection baseline for wavelength, Tx power, sensitivity, distance and operating temperature.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-2G-B35L/S-40D	2.5G	Tx1310nm/Rx1550nm	40km	DFB/PIN	-5~3	<-20	Simplex LC/SC	0~70
YXF-2G-B53L/S-40D	2.5G	Tx1550nm/Rx1310nm	40km	DFB/PIN	-5~3	<-20	Simplex LC/SC	0~70
YXF-2G-B45L/S-40D	2.5G	Tx1490nm/Rx1550nm	40km	DFB/PIN	-5~3	<-20	Simplex LC/SC	0~70
YXF-2G-B54L/S-40D	2.5G	Tx1550nm/Rx1490nm	40km	DFB/PIN	-5~3	<-20	Simplex LC/SC	0~70
YXF-2G-B45L/S-80D	2.5G	Tx1490nm/Rx1550nm	80km	DFB/PIN	-2~3	<-27	Simplex LC/SC	0~70
YXF-2G-B54L/S-80D	2.5G	Tx1550nm/Rx1490nm	80km	DFB/PIN	-2~3	<-27	Simplex LC/SC	0~70
YXF-2G-B45L/S-100D	2.5G	Tx1490nm/Rx1550nm	100km	DFB/PIN	0~5	<-27	Simplex LC/SC	0~70
YXF-2G-B54L/S-100D	2.5G	Tx1550nm/Rx1490nm	100km	DFB/PIN	0~5	<-27	Simplex LC/SC	0~70
YXF-2G-B45L/S-120D	2.5G	Tx1490nm/Rx1550nm	120km	DFB/PIN	0~6	<-29	Simplex LC/SC	0~70
YXF-2G-B54L/S-120D	2.5G	Tx1550nm/Rx1490nm	120km	DFB/PIN	0~6	<-29	Simplex LC/SC	0~70

1.25G SFP

1.25G dual-fiber / CWDM



1.25G SFP options include dual-fiber, CWDM and BiDi variants. Single-fiber selections cover simplex LC and SC interfaces.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-GE-M85L-05D	1.25G	850nm	550m	VCSEL/PIN	-9~-3	<-18	LC	0~70
YXF-GE-M31L-2D	1.25G	1310nm	2km	FP/PIN	-15~-8	<-22	LC	0~70
YXF-GE-S31L-10D	1.25G	1310nm	10km	FP/PIN	-9~-3	<-22	LC	0~70
YXF-GE-S31L-20D	1.25G	1310nm	20km	FP/PIN	-7~-3	<-23	LC	0~70
YXF-GE-S31L-40D	1.25G	1310nm	40km	DFB/PIN	-5~0	<-24	LC	0~70
YXF-GE-S55L-40D	1.25G	1550nm	40km	DFB/PIN	-5~0	<-24	LC	0~70
YXF-GE-S55L-60D	1.25G	1550nm	60km	DFB/PIN	-3~3	<-25	LC	0~70
YXF-GE-S55L-80D	1.25G	1550nm	80km	DFB/PIN	-2~5	<-26	LC	0~70
YXF-GE-S55L-100D	1.25G	1550nm	100km	DFB/PIN	-1~5	<-28	LC	0~70

1.25G SFP

1.25G dual-fiber / CWDM



1.25G SFP options include dual-fiber, CWDM and BiDi variants. Single-fiber selections cover simplex LC and SC interfaces.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-GE-S55L-120D	1.25G	1550nm	120km	DFB/PIN	0~5	<-30	LC	0~70
YXF-GE-S55L-160D	1.25G	1550nm	160km	DFB/APD	1~6	<-32	LC	0~70
YXF-GE-S55L-180D	1.25G	1550nm	180km	DFB/APD	2~7	<-35	LC	0~70
YXF-GE-S55L-200D	1.25G	1550nm	200km	DFB/APD	2~7	<-37	LC	0~70
YXF-GE-CXXL-20D	1.25G	1270nm ~ 1610nm	20km	DFB/PIN	-3~9	<-22	LC	0~70
YXF-GE-CXXL-40D	1.25G	1270nm ~ 1610nm	40km	DFB/PIN	0~5	<-24	LC	0~70
YXF-GE-CXXL-80D	1.25G	1270nm ~ 1610nm	80km	DFB/PIN	-2~5	<-26	LC	0~70
YXF-GE-CXXL-120D	1.25G	1270nm ~ 1450nm	120km	DFB/APD	1~7	<-30	LC	0~70
YXF-GE-CXXL-120D	1.25G	1470nm ~ 1610nm	120km	DFB/PIN	0~6	<-30	LC	0~70

1.25G SFP

1.25G BiDi optical modules



1.25G SFP options include dual-fiber, CWDM and BiDi variants. Single-fiber selections cover simplex LC and SC interfaces.

Do not select solely by wavelength or housing color. Confirm the Tx/Rx pair, connector, optical budget and stated distance for each end.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-GE-B35L/S-3D	1.25G	Tx1310nm/Rx1550nm	3km	FP/PIN	-9~-3	<-20	Simplex LC/SC	0~70
YXF-GE-B53L/S-3D	1.25G	Tx1550nm/Rx1310nm	3km	FP/PIN	-9~-3	<-20	Simplex LC/SC	0~70
YXF-GE-B34L/S-3D	1.25G	Tx1310nm/Rx1490nm	3km	FP/PIN	-9~-3	<-20	Simplex LC/SC	0~70
YXF-GE-B43L/S-3D	1.25G	Tx1490nm/Rx1310nm	3km	FP/PIN	-9~-3	<-20	Simplex LC/SC	0~70
YXF-GE-B34L/S-20D	1.25G	Tx1310nm/Rx1490nm	20km	FP/PIN	-7~-3	<-22	Simplex LC/SC	0~70
YXF-GE-B43L/S-20D	1.25G	Tx1490nm/Rx1310nm	20km	DFB/PIN	-7~-3	<-22	Simplex LC/SC	0~70
YXF-GE-B35L/S-20D	1.25G	Tx1310nm/Rx1550nm	20km	FP/PIN	-7~-3	<-22	Simplex LC/SC	0~70
YXF-GE-B53L/S-20D	1.25G	Tx1550nm/Rx1310nm	20km	DFB/PIN	-7~-3	<-22	Simplex LC/SC	0~70
YXF-GE-B34L/S-40D	1.25G	Tx1310nm/Rx1490nm	40km	DFB/PIN	-5~0	<-24	Simplex LC/SC	0~70
YXF-GE-B43L/S-40D	1.25G	Tx1490nm/Rx1310nm	40km	DFB/PIN	-5~0	<-24	Simplex LC/SC	0~70
YXF-GE-B35L/S-40D	1.25G	Tx1310nm/Rx1550nm	40km	DFB/PIN	-5~0	<-24	Simplex LC/SC	0~70
YXF-GE-B53L/S-40D	1.25G	Tx1550nm/Rx1310nm	40km	DFB/PIN	-5~0	<-24	Simplex LC/SC	0~70
YXF-GE-B34L/S-60D	1.25G	Tx1310nm/Rx1490nm	60km	DFB/PIN	-3~3	<-25	Simplex LC/SC	0~70
YXF-GE-B43L/S-60D	1.25G	Tx1490nm/Rx1310nm	60km	DFB/PIN	-3~3	<-25	Simplex LC/SC	0~70

1.25G SFP

1.25G BiDi optical modules



1.25G SFP options include dual-fiber, CWDM and BiDi variants. Single-fiber selections cover simplex LC and SC interfaces.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-GE-B45L/S-60D	1.25G	Tx1490nm/Rx1550nm	60km	DFB/PIN	-3~3	<-25	Simplex LC/SC	0~70
YXF-GE-B54L/S-60D	1.25G	Tx1550nm/Rx1490nm	60km	DFB/PIN	-3~3	<-25	Simplex LC/SC	0~70
YXF-GE-B35L/S-80D	1.25G	Tx1310nm/Rx1550nm	80km	DFB/PIN	-2~5	<-26	Simplex LC/SC	0~70
YXF-GE-B53L/S-80D	1.25G	Tx1550nm/Rx1310nm	80km	DFB/PIN	-2~5	<-26	Simplex LC/SC	0~70
YXF-GE-B45L/S-80D	1.25G	Tx1490nm/Rx1550nm	80km	DFB/PIN	-2~5	<-26	Simplex LC/SC	0~70
YXF-GE-B54L/S-80D	1.25G	Tx1550nm/Rx1490nm	80km	DFB/PIN	-2~5	<-26	Simplex LC/SC	0~70
YXF-GE-B45L/S-100D	1.25G	Tx1490nm/Rx1550nm	100km	DFB/PIN	-1~5	<-28	Simplex LC/SC	0~70
YXF-GE-B54L/S-100D	1.25G	Tx1550nm/Rx1490nm	100km	DFB/PIN	-1~5	<-28	Simplex LC/SC	0~70
YXF-GE-B45L/S-120D	1.25G	Tx1490nm/Rx1550nm	120km	DFB/PIN	0~5	<-30	Simplex LC/SC	0~70
YXF-GE-B54L/S-120D	1.25G	Tx1550nm/Rx1490nm	120km	DFB/PIN	0~5	<-30	Simplex LC/SC	0~70
YXF-GE-B45L-160D	1.25G	Tx1490nm/Rx1550nm	160km	DFB/APD	1~6	<-32	Simplex LC	0~70
YXF-GE-B54L-160D	1.25G	Tx1550nm/Rx1490nm	160km	DFB/APD	1~6	<-32	Simplex LC	0~70
YXF-GE-B45L-200D	1.25G	Tx1490nm/Rx1550nm	200km	DFB/APD	2~7	<-37	Simplex LC	0~70
YXF-GE-B54L-200D	1.25G	Tx1550nm/Rx1490nm	200km	DFB/APD	2~7	<-37	Simplex LC	0~70

155M SFP

155M duplex and BiDi



155M SFP configurations cover dual-fiber and BiDi applications, with LC, simplex LC or SC interfaces as listed.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-FE-M31L-2D	155M	1310nm	2km	FP/PIN	-20~-14	<-32	LC	0~70
YXF-FE-S31L-20D	155M	1310nm	20km	FP/PIN	-15~-8	<-32	LC	0~70
YXF-FE-S31L-40D	155M	1310nm	40km	FP/PIN	-8~0	<-32	LC	0~70
YXF-FE-S31L-60D	155M	1310nm	60km	DFB/PIN	-5~3	<-34	LC	0~70
YXF-FE-S55L-80D	155M	1550nm	80km	DFB/PIN	-2~3	<-35	LC	0~70
YXF-FE-S55L-120D	155M	1550nm	120km	DFB/PIN	0~5	<-35	LC	0~70
YXF-FE-B35L/S-2D	155M	Tx1310nm/Rx1550nm	2km	FP/PIN	-20~-12	<-32	Simplex LC/SC	0~70
YXF-FE-B53L/S-2D	155M	Tx1550nm/Rx1310nm	2km	FP/PIN	-20~-12	<-32	Simplex LC/SC	0~70
YXF-FE-B35L/S-20D	155M	Tx1310nm/Rx1550nm	20km	FP/PIN	-15~-8	<-32	Simplex LC/SC	0~70

155M SFP

155M duplex and BiDi



155M SFP configurations cover dual-fiber and BiDi applications, with LC, simplex LC or SC interfaces as listed.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-FE-B53L/S-20D	155M	Tx1550nm/Rx1310nm	20km	FP/PIN	-15~-8	<-32	Simplex LC/SC	0~70
YXF-FE-B35L/S-40D	155M	Tx1310nm/Rx1550nm	40km	FP/PIN	-8~0	<-33	Simplex LC/SC	0~70
YXF-FE-B53L/S-40D	155M	Tx1550nm/Rx1310nm	40km	DFB/PIN	-8~0	<-33	Simplex LC/SC	0~70
YXF-FE-B35L/S-60D	155M	Tx1310nm/Rx1550nm	60km	DFB/PIN	-5~3	<-34	Simplex LC/SC	0~70
YXF-FE-B53L/S-60D	155M	Tx1550nm/Rx1310nm	60km	DFB/PIN	-5~3	<-34	Simplex LC/SC	0~70
YXF-FE-B45L/S-80D	155M	Tx1490nm/Rx1550nm	80km	DFB/PIN	-3~3	<-35	Simplex LC/SC	0~70
YXF-FE-B54L/S-80D	155M	Tx1550nm/Rx1490nm	80km	DFB/PIN	-3~3	<-35	Simplex LC/SC	0~70
YXF-FE-B45L/S-120D	155M	Tx1490nm/Rx1550nm	120km	DFB/PIN	0~5	<-35	Simplex LC/SC	0~70
YXF-FE-B54L/S-120D	155M	Tx1550nm/Rx1490nm	120km	DFB/PIN	0~5	<-35	Simplex LC/SC	0~70

Copper SFP

RJ45 copper modules



The listed RJ45 copper modules provide 1G and 10G configurations. Stated copper-link distances range from 30 m to 100 m; a 1G extended-temperature option is also included.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-PP-T-30M	10G	/	30m	/	/	/	RJ45	0-70
YXF-PP-T-80M	10G	/	80m	/	/	/	RJ45	0-70
YXF-PP-T-100M	10G	/	100m	/	/	/	RJ45	0-70
YXF-GE-T	1G	/	100m	/	/	/	RJ45	0-70
YXF-GE-TE	1G	/	100m	/	/	/	RJ45	-40~85

1×9 Optical Modules

1×9 BiDi / dual-fiber / TTL



Board-level 1×9 modules include BiDi, dual-fiber and dual-fiber TTL configurations. Connector options include SC, ST and FC.

Multiple configurations share a family designation. Specify data rate, Tx/Rx wavelengths, distance, connector and signal format when ordering.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
1X9 BIDI	155M	Tx1310nm/Rx1550nm	20km	-3~8	<-35	SC/ST/FC	0~70
1X9 BIDI	155M	Tx1550nm/Rx1310nm	20km	-3~8	<-35	SC/ST/FC	0~70
1X9 BIDI	155M	Tx1310nm/Rx1550nm	40km	-4~0	<-36	SC/ST/FC	0~70
1X9 BIDI	155M	Tx1550nm/Rx1310nm	40km	-4~0	<-36	SC/ST/FC	0~70
1X9 BIDI	155M	Tx1490nm/Rx1550nm	80km	-2~2	<-36	SC/ST/FC	0~70
1X9 BIDI	155M	Tx1550nm/Rx1490nm	80km	-2~2	<-36	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1310nm/Rx1490nm	10km	-6~-3	<-25	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1490nm/Rx1310nm	10km	-6~-3	<-25	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1310nm/Rx1490nm	40km	-4~0	<-25	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1490nm/Rx1310nm	40km	-4~0	<-25	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1310nm/Rx1550nm	40km	-4~0	<-28	SC/ST/FC	0~70

1×9 Optical Modules

1×9 BiDi / dual-fiber / TTL



Board-level 1×9 modules include BiDi, dual-fiber and dual-fiber TTL configurations. Connector options include SC, ST and FC.

Multiple configurations share a family designation. Specify data rate, Tx/Rx wavelengths, distance, connector and signal format when ordering.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
1X9 BIDI	1.25G	Tx1550nm/Rx1310nm	40km	-4~0	<-28	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1490nm/Rx1550nm	80km	-1~3	<-24	SC/ST/FC	0~70
1X9 BIDI	1.25G	Tx1550nm/Rx1490nm	80km	-1~3	<-24	SC/ST/FC	0~70
1X9 DUAL	155M	1310nm	20km	-12~-2	<-34	SC/ST/FC	0~70
1X9 DUAL	155M	1310nm	40km	-7~0	<-35	SC/ST/FC	0~70
1X9 DUAL	155M	1550nm	80km	-2~1	<-37	SC/ST/FC	0~70
1X9 DUAL	1.25G	850nm	550m	-9~-3	<-18	SC/ST/FC	0~70
1X9 DUAL	1.25G	1310nm	20km	-9~-3	<-24	SC/ST/FC	0~70
1X9 DUAL	1.25G	1310nm	40km	-5~-0	<-25	SC/ST/FC	0~70
1X9 DUAL	1.25G	1550nm	80km	-2~1	<-27	SC/ST/FC	0~70
1X9 DUAL TTL	0-2M	1310nm	20km	-10~-4	<-16	SC/ST/FC	0~70

AOC / DAC

Active optical cables (AOC)



Cable assemblies include active optical cables and direct-attach copper solutions, with active copper and active electrical variants also listed.

Match both end form factors and the required breakout topology. Length and sleeve material are configuration-specific.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-800G-OSFP-AOC	800G	OSFP to OSFP	1~50m	PVC	0-70
YXF-400G-QDD-AOC	400G	QSFP-DD to QSFP-DD	1~100m	PVC	0-70
YXF-400G-QDD-O-AOC	400G	QSFP-DD to QSFP	1~50m	PVC	0-70
YXF-400G-QDD-2Q-AOCP	400G to 2x200G	QSFP-DD to 2xQSFP56	1~50m	PVC	0-70
YXF-400G-QDD-4Q-AOC	400G to 4x100G	QSFP-DD to 4xQSFP56	1~50m	PVC	0-70
YXF-400G-OSFP-2Q-AOC	400G to 2x200G	QSFP to 2xQSFP56	1~50m	PVC	0-70
YXF-Q56-AOC	200G	QSFP56 to QSFP56	1~100m	PVC	0-70
YXF-Q56-2Q-AOC	200G to 2x100G	QSFP56 to 2xQSFP56	1~50m	PVC	0-70
YXF-Q28-AOC	100G	QSFP28 to QSFP28	1~100m	PVC	0-70
YXF-QSFP-AOC	40G	QSFP+ to QSFP+	1~100m	PVC	0-70
YXF-S28-AOC	25G	SFP28 to SFP28	1~100m	PVC	0-70
YXF-SFP-AOC	10G	SFP+ to SFP+	1~150m	PVC	0-70

AOC / DAC

DAC / ACC / AEC cable assemblies



Cable assemblies include active optical cables and direct-attach copper solutions, with active copper and active electrical variants also listed.

Match both end form factors and the required breakout topology. Length and sleeve material are configuration-specific.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-800G-OSFP-DAC	800G	OSFP to OSFP	0.5~2.5m	PVC	0-70
YXF-800G-OSFP-ACC	800G	OSFP to OSFP	3~5m	PVC	0-70
YXF-800G-OSFP-AEC	800G	OSFP to OSFP	4~7m	PVC	0-70
YXF-800G-OSFP-2O-DAC	800G to 2x400G	OSFP to 2xOSFP	0.5~2.5m	PVC	0-70
YXF-800G-OSFP-2Q-DAC	800G to 2x400G	OSFP to 2xQSFP112	0.5~2.5m	PVC	0-70
YXF-800G-OSFP-4O-DAC	800G to 4x200G	OSFP to 4xOSFP	0.5~2.5m	PVC	0-70
YXF-800G-OSFP-4Q-DAC	800G to 4x200G	OSFP to 4xQSFP112	0.5~2.5m	PVC	0-70
YXF-800G-OSFP-2O-ACC	800G to 2x400G	OSFP to 2xOSFP	3~5m	PVC	0-70
YXF-800G-OSFP-2Q-ACC	800G to 2x400G	OSFP to 2xQSFP112	3~5m	PVC	0-70
YXF-800G-OSFP-4O-ACC	800G to 4x200G	OSFP to 4xOSFP	3~5m	PVC	0-70

AOC / DAC

DAC / ACC / AEC cable assemblies



Cable assemblies include active optical cables and direct-attach copper solutions, with active copper and active electrical variants also listed.

Match both end form factors and the required breakout topology. Length and sleeve material are configuration-specific.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-800G-OSFP-4Q-ACC	800G to 4x200G	OSFP to 4xQSFP112	3~5m	PVC	0-70
YXF-400G-QDD-DAC	400G	QSFP-DD to QSFP-DD	1~3m	PVC	0-70
YXF-400G-QDD-O-DAC	400G	QSFP-DD to OSFP	1~3m	PVC	0-70
YXF-400G-QDD-2Q-DAC	400G to 2x200G	QSFP-DD to 2xQSFP56	1~3m	PVC	0-70
YXF-400G-QDD-4Q-DAC	400G to 4x100G	QSFP-DD to 4xQSFP56	1~3m	PVC	0-70
YXF-400G-OSFP-2Q-DAC	400G to 2x200G	OSFP to 2xQSFP56	1~3m	PVC	0-70
YXF-Q56-DAC	200G	QSFP56 to QSFP56	0.5~3m	PVC	0-70
YXF-Q56-ACC	200G	QSFP56 to QSFP56	1~3m	PVC	0-70
YXF-Q56-ACC	200G to 2x100G	QSFP56 to 2xQSFP56	1~3m	PVC	0-70
YXF-Q56-2Q-ACC	200G to 2x100G	QSFP56 to 2xQSFP56	1~3m	PVC	0-70

NDR

NDR optical modules



NDR-family selections include 800G and 400G optical modules, direct-attach cables and active optical cables. Straight and breakout configurations are listed.

Confirm port mode, host firmware, lane mapping and required FEC with the target equipment before deployment.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-OSFP-NDR-2SR4	800G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	2xMPO-12/APC	0~70
YXF-OSFP-NDR-2DR4	800G	1310nm	100m	EML/PIN	-2.9~4	<-5.9	2xMPO-12/APC	0~70
YXF-OSFP-NDR-2DR4+	800G	1310nm	500m	EML/PIN	-2~4	<-6.2	2xMPO-12/APC	0~70
YXF-OSFP-NDR-2FR4	800G	1310nm	2km	EML/PIN	-3.2~4.4	<-7.2	2xLC	0~70
YXF-Q112-NDR-SR4	400G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	MPO-12/APC	0~70
YXF-Q112-NDR-DR4	400G	1310nm	100m	EML/PIN	-2.9~4	<-5.9	MPO-12/APC	0~70
YXF-OSFP-NDR-SR4	400G	850nm	50m	VCSEL/PIN	-4.6~4	<-6.4	MPO-12/APC	0~70
YXF-OSFP-NDR-DR4	400G	1310nm	500m	DFB/PIN	-2.9~4	<-5.9	MPO-12/APC	0~70

NDR

NDR cable assemblies



NDR-family selections include 800G and 400G optical modules, direct-attach cables and active optical cables. Straight and breakout configurations are listed.

Confirm port mode, host firmware, lane mapping and required FEC with the target equipment before deployment.

TECHNICAL SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-NDR-OSFP-DAC	800G to 800G	OSFP to OSFP	0.5~2.5m	PVC	0-70
YXF-NDR-OSFP-2O-DAC	800G to 2x400G	OSFP to 2xOSFP	0.5~2.5m	PVC	0-70
YXF-NDR-OSFP-2Q-DAC	800G to 2x400G	OSFP to 2xQSFP112	0.5~2.5m	PVC	0-70
YXF-NDR-OSFP-4O-DAC	800G to 4x200G	OSFP to 4xOSFP	0.5~2.5m	PVC	0-70
YXF-NDR-OSFP-4Q-DAC	800G to 4x200G	OSFP to 4xQSFP112	0.5~2.5m	PVC	0-70
YXF-NDR-OSFP-AOC	800G	OSFP to OSFP	1~50m	PVC	0-70
YXF-NDR-QDD-DAC	400G	QSFP-DD to QSFP-DD	1~3m	PVC	0-70
YXF-NDR-QDD-2Q-DAC	400G to 2x200G	QSFP-DD to 2xQSFP56	1~3m	PVC	0-70
YXF-NDR-QDD-4Q-DAC	400G to 4x100G	QSFP-DD to 4xQSFP56	1~3m	PVC	0-70
YXF-NDR-OSFP-2Q-DAC	400G to 2x200G	OSFP to 2xQSFP56	1~3m	PVC	0-70
YXF-NDR-QDD-AOC	400G	QSFP-DD to QSFP-DD	1~50m	PVC	0-70
YXF-NDR-QDD-2Q-AOC	800G to 2x400G	OSFP to 2xQSFP112	1~50m	PVC	0-70
YXF-NDR-QDD-4Q-AOC	400G to 4x100G	QSFP-DD to 4xQSFP56	1~50m	PVC	0-70
YXF-NDR-QDD-2Q-AOC	400G to 2x200G	OSFP to 2xQSFP56	1~50m	PVC	0-70

HDR

HDR optical modules and cables



HDR-family selections combine 200G optical modules with QSFP56 straight and 200G-to-2x100G breakout cable options.

Match the optical interface or cable-end topology to the required HDR link; cable length limits differ by construction.

OPTICAL MODULE SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-Q56-HDR-SR4	200G	850nm	100m	VCSEL/PIN	-6.5~8.4	<-8.4	MPO-12/UPC	0~70
YXF-Q56-HDR-FR4	200G	1310nm	2km	DFB/PIN	-4.2~4.7	<-8.2	LC	0~70

CABLE ASSEMBLY SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-HDR-Q56-DAC	200G	QSFP56 to QSFP56	0.5~3m	PVC	0-70
YXF-HDR-Q56-ACC	200G	QSFP56 to QSFP56	1~5m	PVC	0-70
YXF-HDR-Q56-2Q-DAC	200G to 2x100G	QSFP56 to 2xQSFP56	1~3m	PVC	0-70
YXF-HDR-Q56-2Q-ACC	200G to 2x100G	QSFP56 to 2xQSFP56	1~5m	PVC	0-70
YXF-HDR-Q56-AOC	200G	QSFP56 to QSFP56	1~100m	PVC	0-70
YXF-HDR-Q56-2Q-AOC	200G to 2x100G	QSFP56 to 2xQSFP56	1~50m	PVC	0-70

EDR

EDR optical modules and cables



EDR-family selections include 100G QSFP28 SR4 and CWDM4 optical modules, plus DAC and AOC cable assemblies.

Choose multimode or single-mode optics, or a factory-terminated cable, according to the connector and distance requirements.

OPTICAL MODULE SPECIFICATIONS

Reference model	Data rate	Wavelength	Distance	Source	Output power (dBm)	Sensitivity (dBm)	Connector	Temp. (°C)
YXF-Q28-EDR-SR4	100G	850nm	100m	VCSEL/PIN	-8.4~2.4	<-10.3	MPO-12/UPC	0~70
YXF-Q28-EDR-CWDM4	100G	1310nm	2km	DML/PIN	-6.5~2.5	<-11.5	LC	0~70

CABLE ASSEMBLY SPECIFICATIONS

Reference model	Data rate	End Configuration	Length	Jacket material	Temp. (°C)
YXF-EDR-Q28-DAC	100G	QSFP28 to QSFP28	0.5~5m	PVC	0-70
YXF-EDR-Q28-AOC	100G	QSFP28 to QSFP28	1~100m	PVC	0-70



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8875 Hidden River Parkway, Suite 300
Tampa, FL 33637
United States

Office: +1.813.336.3260

EMAIL: sales@componexx.com

Web: www.componexx.com

