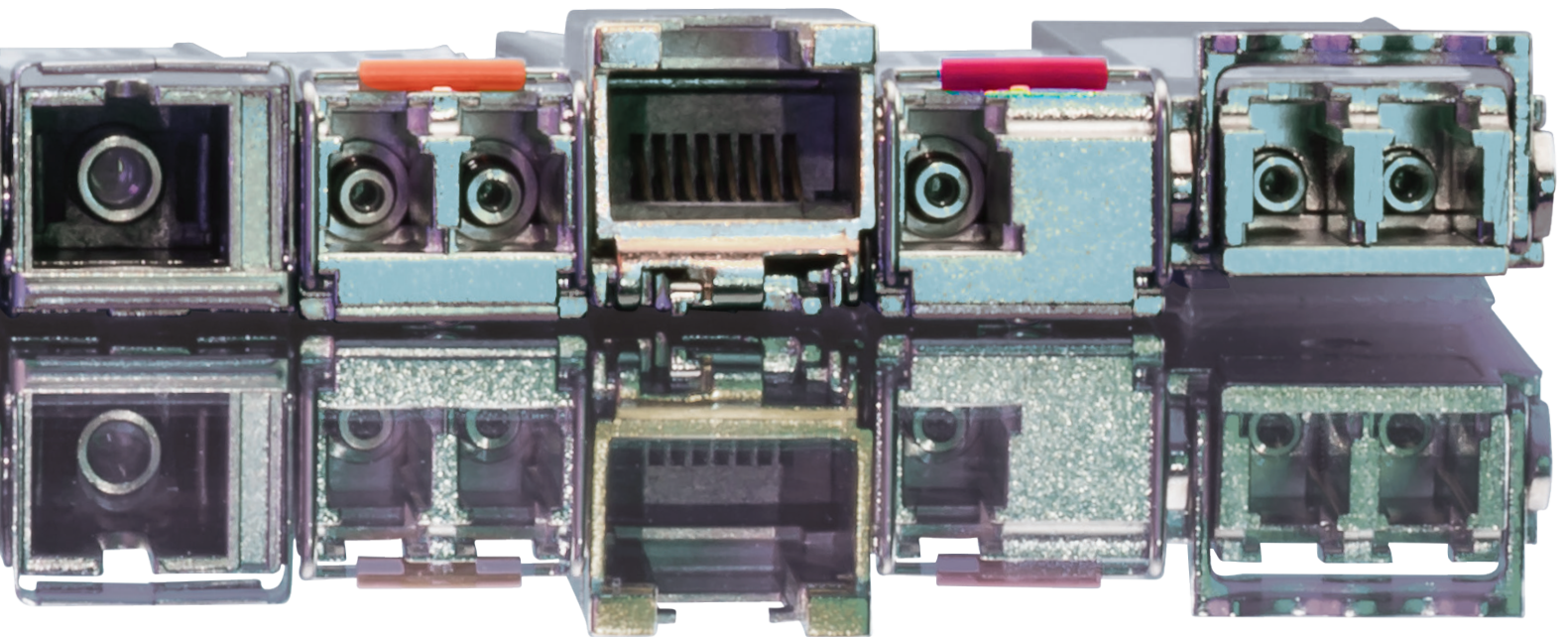




OPTICAL TRANSCEIVER SPECIFICATIONS GUIDE

Optics | DACs | Cables | Cable Management | Media Converters

OPTICAL TRANSCEIVER SPECIFICATIONS FOR THE SMART DATA CENTER.

QUALITY OPTICS YOU CAN TRUST

Smith takes pride in taking a proactive role in qualifying and validating our components and finished goods before programming even begins on our optics. To guarantee 100% compatibility and compliance, Smith's transceivers are coded to meet the specific requirements of the switches, servers, or routers in which they will be installed. Our engineers then test the optic in the system with the most commonly used applications and operating systems. Since transceiver performance varies slightly between contract manufacturers, Smith's quality standards call for in-system qualification of every new solution, running thousands of hours at full network emulation.

Smith is a source you can trust to deliver the highest quality optical products available. We recognize the important role that optics and connectivity products play in the networking landscape and take the necessary steps to guarantee a reliable product.

Smith's quality system provides our clients with:

Quality – Smith qualifies components and tests every transceiver at all stages of the process.

Reliability – Smith's return and failure rates are the lowest in the industry. Return rate on modules shipped is 0.010% (1 in 9890). Failure rate on modules deployed in the field is .0029% (1 in 33,600). These low rates are due to working with tier-one CMs, programming, and in-house testing. This means that most failures/defects are found in-process.

Compliance – Smith programs and tests our products for guaranteed compatibility and backs this process up with a lifetime warranty.

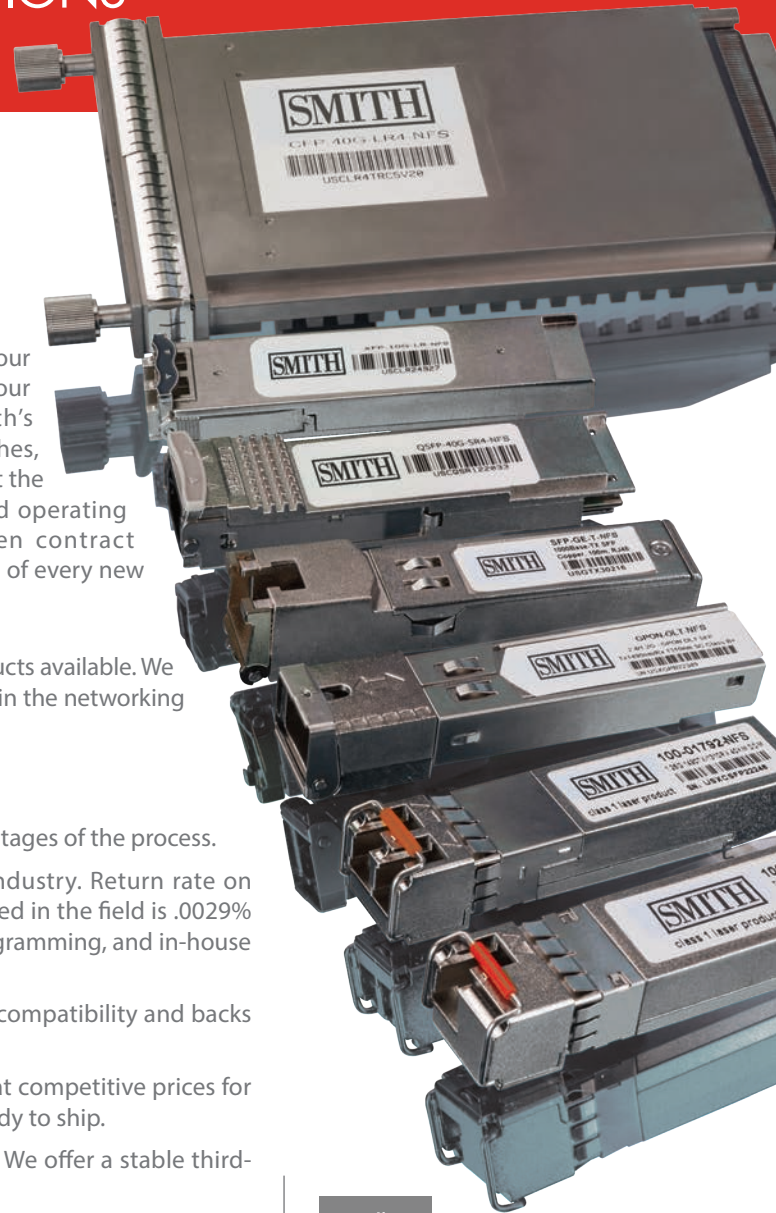
Expedience – Smith keeps a complete line of tested optical solutions at competitive prices for thousands of networking switches, routers, and servers, in stock and ready to ship.

Stability – Since 1984, Smith has been a trusted distribution partner. We offer a stable third-party source of the optics you need to keep your business running.

Expertise – Benefit from the experience of technical engineers who have contributed to the development of first-to-market products and customized solutions to help clients build the highest-performing networks in the world.

Smith transceivers support the following:

3Com | ADTRAN | ADVA | Aerohive | Alcatel | Allied Telesis | Alvarion | Arista | Aruba | ASUS | Avaya
BLADE Network Technologies | Brocade | BTI | Calix | Ceragon | Check Point | Chelsio | Ciena | Cisco |
D-Link | Dell Delta | ECI Telecom | Enterasys | Extreme | F5 Networks | Finisar | Fluke Networks |
Force10 | Fortinet | Foundry | FTTX | Fujitsu | Gigamon | H3C | HP | Huawei | IBM | Intel | JDSU |
Juniper | Linksys | Marconi | Mellanox | Meraki | MRV | NETGEAR | Nokia | Nortel | Nutanix | OPLINK |
Overture | Palo Alto | Pannaway | Planet | RAD Group | Redback | Riverbed | Riverstone | Sixnet | SMC
| Sun | Sunrise Telecom | Tejas Networks | Telco Systems | TP-Link | Transition Networks | TRENDnet |
Ubiquiti | XXL | Zhone | ZTE | Zyxel



WARRANTY SAFE

Smith products **will not void your OEM warranty**, and they present zero service-level risk. Federal law protects you and your rights.



DATA-CENTER CERTIFIED

Smith's entire optics product line has been **certified compliant** within the data center environment, supporting major telecom and technology corporations with quality components.

FOR BEST PRACTICES AND EXPERT
CONFIGURATION, CALL +1 855.223.4298

SMITH



SFP TRANSCEIVERS

SFP Form Factor to SFP Connector										
Form Factor		Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
SFP Copper T	SFP-T100	Copper	10/100	100 m	Cat 5	-	-	-	-	-
	SFP-TM	Copper	10/100/1000	100m	Cat 5	-	-	-	-	-
	SFP-T	Copper	1000	100m	Cat 5	-	-	-	-	-
SFP OC3	SFP-OC3-SRD	1310	155	2 km	MM	-20	-14	-31	-5	17
	SFP-OC3-SR	1310	155	2 km	SM	-15	-8	-23	-8	17
	SFP-OC3-IR1	1310	155	20 km	SM	-8	-14	-28	-8	14
	SFP-OC3-LR1	1310	155	40 km	SM	0	-5	-34	-10	29
	SFP-OC3-LR2	1550	155	80 km	SM	0	-5	-34	-10	29
SFP OC3 BIDI	SFP-OC3B34-15	1310/1490	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B43-15	1490/1310	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B34-40	1310/1490	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B43-40	1490/1310	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B35-15	1310/1550	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B53-15	1550/1310	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B35-40	1310/1550	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B53-40	1550/1310	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B45-15	1490/1550	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B54-15	1550/1490	155	15 km	SM	-15	-8	-24	-8	10
	SFP-OC3B45-40	1490/1550	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B54-40	1550/1490	155	40 km	SM	3	-2	-24	-10	22
	SFP-OC3B45-80	1490/1550	155	80 km	SM	0	5	-28	-3	26
	SFP-OC3B54-80	1550/1490	155	80 km	SM	0	5	-28	-3	26
SFP OC12	SFP-OC12-SRD	850	622	2 km	MM	-20	-14	-31	-6	17
	SFP-OC12-SR	1310	622	2 km	SM/MM	-15	-8	-31	-8	17
	SFP-OC12-IR1	1310	622	20 km	SM	-8	-15	-28	-8	14
	SFP-OC12-LR1	1310	622	40 km	SM	2	-3	-28	-8	29
	SFP-OC12-LR2	1550	622	80 km	SM	2	-3	-28	-8	29
SFP OC12 BIDI	SFP-OC12B34-15	1310/1490	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B43-15	1490/1310	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B34-40	1310/1490	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B43-40	1490/1310	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B35-15	1310/1550	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B53-15	1550/1310	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B35-40	1310/1550	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B53-40	1550/1310	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B45-15	1490/1550	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B54-15	1550/1490	155	15 km	SM	0	5	-28	-3	28
	SFP-OC12B45-40	1490/1550	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B54-40	1550/1490	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC12B45-80	1490/1550	155	80 km	SM	0	5	-28	-3	26
	SFP-OC12B54-80	1550/1490	155	80 km	SM	0	5	-28	-3	26
SFP OC48	SFP-OC48-SR	1310	2.5	2 km	SM/MM	-10	-3	-18	-3	15
	SFP-OC48-IR1	1310	2.5	20 km	SM	0	-5	-18	-10	13
	SFP-OC48-LR1	1310	2.5	40 km	SM	3	-2	-28	-9	26
	SFP-OC48-LR2	1550	2.5	80 km	SM	5	0	-28	-9	28
SFP OC48 BIDI	SFP-OC48B34-15	1310/1490	155	15 km	SM	-5	0	-18	0	13
	SFP-OC48B43-15	1490/1310	155	15 km	SM	-5	0	-18	0	13
	SFP-OC48B34-40	1310/1490	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC48B43-40	1490/1310	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC48B35-15	1310/1550	155	15 km	SM	-5	0	-18	0	13

Smith optical transceivers are available in commercial (0°C to 70°C), extended (-10°C to 85°C), or industrial temperature (-40°C to 85°C).

OPTICAL TRANSCEIVER SPECIFICATIONS FOR THE SMART DATA CENTER.



SFP TRANSCEIVERS, CONT.

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
SFP OC48 BIDI, CONT.	SFP-OC48B53-15	1550/1310	155	15 km	SM	-5	0	-18	0	13
	SFP-OC48B35-40	1310/1550	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC48B53-40	1550/1310	155	40 km	SM	3	-2	-24	-9	22
	SFP-OC48B45-15	1490/1550	155	15 km	SM	-5	0	-18	0	13
	SFP-OC48B54-15	1550/1490	155	15 km	SM	-5	0	-18	0	13
	SFP-OC48B45-40	1490/1550	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC48B54-40	1550/1490	155	40 km	SM	-2	3	-27	-9	22
	SFP-OC48B45-80	1490/1550	155	80 km	SM	3	-2	-28	0	26
	SFP-OC48B54-80	1550/1490	155	80 km	SM	3	-2	-28	0	26
1GB SFP	SFP-SX	850	1.25	220/500 m	MM	-9	-2	-17	-3	8
	SFP-LX	1310	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-EX	1310	1.25	40 km	SM	-2	3	-23	-3	21
	SFP-ZX	1550	1.25	80 km	SM	-2	3	-24	-3	22
	SFP-ZX-120	1550	1.25	120 km	SM	0	5	-32	-10	32
	SFP-ZX-160	1550	1.25	160 km	SM	3	7	-37	-10	40
SFP BIDI	SFP-BX34-10	1310/1490	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX43-10	1490/1310	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX34-40	1310/1490	1.25	40 km	SM	-2	3	-23	-3	21
	SFP-BX43-40	1490/1310	1.25	40 km	SM	-2	3	-23	-3	21
	SFP-BX35-10	1310/1550	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX53-10	1550/1310	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX35-40	1310/1550	1.25	40 km	SM	-2	3	-23	-3	21
	SFP-BX53-40	1550/1310	1.25	40 km	SM	-2	3	-23	-3	21
	SFP-BX45-10	1490/1550	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX54-10	1550/1490	1.25	10 km	SM	-9	-3	-23	-3	14
	SFP-BX45-40	1490/1550	1.25	40 km	SM	-5	0	-23	-3	18
	SFP-BX54-40	1550/1490	1.25	40 km	SM	-5	0	-23	-3	18
	SFP-BX45-80	1490/1550	1.25	80 km	SM	-2	3	-25	-8	23
	SFP-BX54-80	1550/1490	1.25	80 km	SM	-2	3	-25	-8	23
	SFP-BX17-80	1510/1570	1.25	80 km	SM	-2	3	-25	-8	23
	SFP-BX71-80	1570/1510	1.25	80 km	SM	-2	3	-25	-8	23
	SFP-BX17-120	1510/1570	1.25	120 km	SM	0	5	-33	-8	33
	SFP-BX71-120	1570/1510	1.25	120 km	SM	0	5	-33	-8	33
SFP GPON	GPON-B34-20	1310/1490	1.25/2.5	20 km	SM ONU	0.5	5	-28	-8	28
	GPON-B43-20	1490/1310	2.5/1.25	20 km	SM OLT	1.5	5	-28	-8	30
	GPON-C43-20	1490/1310	2.5/1.25	20 km	SM OLT	4	7	-31	-12	35
SFP CWDM	CWDM-SFP-xx-40	1270-1610	1.25	40 km	SM	-5	0	-24	-3	19
	CWDM-SFP-xx-80	1270-1610	1.25	80 km	SM	0	5	-24	-3	24
	CWDM-SFP-xx-120	1470-1610	1.25	120 km	SM	0	5	-35	-10	35
SFP DWDM	DWDM-SFP-xx-40	C-Band	1.25	40 km	SM	0	4	-24	-9	24
	DWDM-SFP-xx-80	C-Band	1.25	80 km	SM	0	4	-30	-7	30
	DWDM-SFP-xx-120	C-Band	1.25	120 km	SM	2	7	-35	-10	37

FOR BEST PRACTICES AND EXPERT
CONFIGURATION, CALL +1 855.223.4298

SMITH



CSFP TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
CSFP 1GB	CSFP-BXU-10	1310/1490	1.25	10 km	SM	-9	-3	-23	-3	11
	CSFP-BXD-10	1490/1310	1.25	10 km	SM	-9	-3	-23	-3	11
	CSFP-BXU35-10	1310/1550	1.25	10 km	SM	-9	-3	-23	-3	11
	CSFP-BXD53-10	1550/1310	1.25	10 km	SM	-9	-3	-23	-3	11
	CSFP-BXU-20	1310/1490	1.25	20 km	SM	-2	3	-23	-3	13
	CSFP-BXD-20	1490/1310	1.25	20 km	SM	-2	3	-23	-3	13
	CSFP-BXU35-20	1310/1550	1.25	20 km	SM	-2	3	-23	-3	13
	CSFP-BXD53-20	1550/1310	1.25	20 km	SM	-2	3	-23	-3	13
	CSFP-BXU-40	1310/1490	1.25	40 km	SM	-2	3	-23	-3	21
	CSFP-BXD-40	1490/1310	1.25	40 km	SM	-2	3	-23	-3	21



XENPAK TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
10GB XENPAK	XENPAK-SR	850	10.313	300 m	MM	-5	5	-9.9	0.5	4.9
	XENPAK-LR	1310	10.313	10 km	SM	-5	0	-10.3	0.5	5.3
	XENPAK-ER	1550	10.313	40 km	SM	-1	3	-10.3	0.5	9.3
	XENPAK-ZR	1550	10.313	80 km	SM	0	4	-27	-7	27
XENPAK CWDM	CWDM-XENPAK-xx-40	1470-1610	9.9-11.3	40 km	SM	-1	2	-15.8	-1	14.8
	CWDM-XENPAK-xx-80	1470-1610	9.9-11.3	80 km	SM	0	4	-24	-7	24
XENPAK DWDM	DWDM-XENPAK-xx-40	C-Band	9.9-11.3	40 km	SM	-1	2	-15.8	-1	14.8
	DWDM-XENPAK-xx-80	C-Band	9.9-11.3	80 km	SM	-1	3	-24	-7	23



X2 TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
10GB X2	X2-SR	850	10.313	300 m	MM	-5	-1	-11.1	-1	6.1
	X2-LR	1310	10.313	10 km	SM	-8.2	0.5	-12.6	0.5	4.4
	X2-ER	1550	10.313	40 km	SM	-1	3	-11.4	0.5	10.4
	X2-ZR	1550	10.313	80 km	SM	0	4	-23	0.5	23
X2 CWDM	CWDM-X2-xx-40	1470-1610	9.9-11.3	40 km	SM	-1	2	-15.8	-1	14.8
	CWDM-X2-xx-80	1470-1610	9.9-11.3	80 km	SM	0	4	-24	-7	24
X2 DWDM	DWDM-X2-xx-40	C-Band	9.9-11.3	40 km	SM	-1	2	-15.8	-1	14.8
	DWDM-X2-xx-80	C-Band	9.9-11.3	80 km	SM	-1	3	-24	-7	23

Smith optical transceivers are available in commercial (0°C to 70°C), extended (-10°C to 85°C), or industrial temperature (-40°C to 85°C).

OPTICAL TRANSCEIVER SPECIFICATIONS FOR THE SMART DATA CENTER.



XFP TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	Tx Min (dBm)	Tx Max (dBm)	Rx Sensitivity	Rx Overload	Link Budget
10GB XFP	XFP-SR	850	10.3125	300 m	MM	-7	-3	-11	0.5	4
	XFP-LR-OC192	1310	9.9-11.3	10 km	SM	-8.2	0.5	-14.4	0.5	6.2
	XFP-ER-OC192	1550	9.9-11.3	40 km	SM	-1	3	-19	-1	18
	XFP-ZR-OC192	1550	9.9-11.3	80 km	SM	-1	4	-24	-7	23
XFP BIDI	XFP-BXU-10	1270/1330	9.9-11.3	10 km	SM	-5	0	-14	0.5	9
	XFP-BXD-10	1330/1270	9.9-11.3	10 km	SM	-5	0	-14	0.5	9
	XFP-BXU-20	1270/1330	9.9-11.3	20 km	SM	-2	3	-14	0.5	12
	XFP-BXD-20	1330/1270	9.9-11.3	20 km	SM	-2	3	-14	0.5	12
	XFP-BXU-40	1270/1330	9.9-11.3	40 km	SM	1	5	-14	0.5	15
	XFP-BXD-40	1330/1270	9.9-11.3	40 km	SM	1	5	-14	0.5	15
XFP CWDM	CWDM-XFP-xx-10	1470-1610	9.9-11.3	40 km	SM	-4.8	0.5	-12.6	0.5	7.8
	CWDM-XFP-xx-40	1470-1610	9.9-11.3	40 km	SM	-1	3	-14	0.5	13
	CWDM-XFP-xx-80	1470-1610	9.9-11.3	80 km	SM	0	4	-25	0.5	25
XFP DWDM	DWDM50-XFP-xx-40	50GHz C-Band	9.9-11.3	40 km	SM	-1	3	-19	0.5	18
	DWDM50-XFP-xx-80	50GHz C-Band	9.9-11.3	80 km	SM	-1	4	-27	-7	26
	DWDM-XFP-xx-40	100GHz C-Band	9.9-11.3	40 km	SM	-1	3	-19	0.5	18
	DWDM-XFP-xx-80	100GHz C-Band	9.9-11.3	80 km	SM	-1	4	-27	-7	26
XFP Tunable	XFP-TUNE-80	C-Band	9.9-11.3	80 km	SM	-1	3	-26	-5	25



SFP+ TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	Tx Min (dBm)	Tx Max (dBm)	Rx Sensitivity	Rx Overload	Link Budget
10GB SFP+	SFP10G-SR	850	10.3125	300 m	MM	-5	-1	-11.1	0.5	6.1
	SFP10G-LRM	1310	9.9-11.3	220 m	MM	-6.5	0.5	-10	1.5	3.5
	SFP10G-LR	1310	9.9-11.3	10 km	SM	-8.2	0.5	-10.3	0.5	6.2
	SFP10G-LR20	1310	9.9-11.3	20 km	SM	-3	1	-14.4	0.5	11.4
	SFP10G-LR40	1310	9.9-11.3	40 km	SM	-1	4	-15	0.5	14
	SFP10G-LR70	1310	9.9-11.3	70 km	SM	2	5	-20	-8	22
	SFP10G-ER	1550	9.9-11.3	40 km	SM	-4.7	4	-14.1	-1	9.4
	SFP10G-ZR	1550	9.9-11.3	80 km	SM	0	5	-20	-8	20
SFP+ BIDI	SFP10G-BXU-10	1270/1330	9.9-11.3	10 km	SM	-5	0	-14	0.5	9
	SFP10G-BXD-10	1330/1270	9.9-11.3	10 km	SM	-5	0	-14	0.5	9
	SFP10G-BXU-20	1270/1330	9.9-11.3	20 km	SM	-2	3	-14	0.5	12
	SFP10G-BXD-20	1330/1270	9.9-11.3	20 km	SM	-2	3	-14	0.5	12
	SFP10G-BXU-40	1270/1330	9.9-11.3	40 km	SM	1	5	-15	0.5	16
	SFP10G-BXD-40	1330/1270	9.9-11.3	40 km	SM	1	5	-15	0.5	16
	SFP10G-BXU-60	1270/1330	9.9-11.3	60 km	SM	1	6	-20	-1	21
	SFP10G-BXD-60	1330/1270	9.9-11.3	60 km	SM	1	6	-20	-1	21
SFP+ CWDM	CWDM-SFP+xx-10	1270-1330	9.9-11.3	10 km	SM	-1	4	-14	-1	13
	CWDM-SFP+xx-40	1470-1610	9.9-11.3	40 km	SM	-1	4	-14	-1	13
	CWDM-SFP+xx-80	1470-1610	9.9-11.3	80 km	SM	0	4	-21	-8	21
SFP+ Tunable	SFP+TUNE-80	C-Band	9.9-11.3	80 km	SM	-1	3	-26	-7	25

FOR BEST PRACTICES AND EXPERT
CONFIGURATION, CALL +1 855.223.4298

SMITH



SFP+ TRANSCEIVERS, CONT.

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
SFP+ DWDM	DWDM50-SFPP-xx-40	50GHz C-Band	9.9-11.3	40 km	SM	-4.7	4	-14.1	-1	9.4
	DWDM50-SFPP-xx-80	50GHz C-Band	9.9-11.3	80 km	SM	0	5	-20	-8	20
	DWDM-SFPP-xx-40	100GHz C-Band	9.9-11.3	40 km	SM	-4.7	4	-14.1	-1	9.4
	DWDM-SFPP-xx-80	100GHz C-Band	9.9-11.3	80 km	SM	0	5	-20	-8	20



QSFP TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
40G QSFP+ (4x10)	QSFP-SR4	850	41.25	100 m	MM	-7.6	-1	-9.5	5	2
	QSFP-CSR4	850	41.25	300 m	MM	-7.3	0	-9.9	0	2.4
	QSFP-IR4	1270-1330	41.25	2 km	SM	-10	2.3	-13.7	2.3	4
	QSFP-LR4	1270-1330	41.25	10 km	SM	-7	2.3	-11.5	2.3	4.5
	QSFP-PLRM	1270-1330	41.25	10 km	SM	-7	2.3	-11.5	2.3	4.5
100G QSFP28 (4x25)	QSFP28-SR4	850	103.1-111.8	100 m	MM	-9.1	2.4	-11	3.4	1.9
	QSFP28-IR4	1295-1310	103.1-111.8	2 km	SM	-4.3	2.3	-11.5	2.3	4
	QSFP28-LR4	1295-1310	103.1-111.8	10 km	SM	-4.3	4.5	-10.5	4.5	6.3



CFP & CXP TRANSCEIVERS

	Form Factor	Wavelength	Data Rate	Max Distance	Connectivity	TX Min (dBm)	TX Max (dBm)	RX Sensitivity	RX Overload	Link Budget
40G CFP (4x10)	CFP-40G-SR4	850	39.8-44.8	100 m	MM	-7.5	2.5	-9.9	1	2.4
	CFP-40G-CSR4	850	39.8-44.8	300 m	MM	-6.5	2.5	-10	1	3.5
	CFP-40G-LR4	1270-1330	39.8-44.8	10 km	SM	-4	3.5	-11.5	2.3	7.5
	CFP-40G-ER4	1270-1330	39.8-44.8	40 km	SM	-1	4	-21	3.8	20
100G CFP (10x10)	CFP-100G-SR10	850	103.1-111.8	100 m	MM	-8	1	-9.9	1	1.9
100G CFP (4x25)	CFP-100G-SR4	850	103.1-111.8	100 m	MM	-7.5	2.5	-9.9	1	2.4
	CFP-100G-CSR4	850	103.1-111.8	300 m	MM	-7.5	2.5	-9.9	1	2.4
	CFP-100G-LR4	1295-1310	103.1-111.8	10 km	SM	-4.3	4.5	-10.6	1.5	6.3
	CFP-100G-LR4-20	1295-1310	103.1-111.8	20 km	SM	-2.5	2.9	-10.6	1.5	8.1
	CFP-100G-ER4	1295-1310	103.1-111.8	40 km	SM	-2.7	2.9	-20.9	2.5	18.2
100G CFP Tunable	CFP-100G-DWDM	DWDM	103.1-111.8	100 km	SM	-2.7	2.9	-21.3	2.5	18.6
100G CFP2 (4x25)	CFP2-100G-LR4	1295-1310	103.1-111.8	10 km	SM	-4.3	4	-6.9	4	9
100G CFP4 (4x25)	CFP4-100G-SR4	850	103.1-111.8	100 m	MM	-8.4	2.4	-10.3	3.4	1.9
	CFP4-100G-LR4	1295-1310	103.1-111.8	10 km	SM	-4.3	4.5	-6.8	4.5	6.3
100G CXP (12x10)	CXP-SR10	850	12.7-126	300 m	MM	-7.6	2.4	-9.5	-5.4	1.9

Smith optical transceivers are available in commercial (0°C to 70°C), extended (-10°C to 85°C), or industrial temperature (-40°C to 85°C).



SMITH

+1 855.223.4298
smithweb.com
optics@nfsmith.com
f t in

SER.A | 05.18 | © 2018 N.F. Smith & Associates, L.P. All Rights Reserved.