



# SINGLE FIBER SFP

## KEY FEATURES AND BENEFITS

Champion ONE's SF SFP or bi-directional (bidi) offers a direct replacement for dual-fiber SFP optics, providing you with more bandwidth on less fiber. Gaining increased capacity without running new fiber can reduce your fiber installation or lease costs, optimizing your fiber plant.

Our carrier-grade SFP products also feature digital diagnostics, also known as digital optical monitoring (DOM), which is supported by the majority of switches and routers.

## TECHNICAL SPECIFICATIONS

### STANDARDS AND REGULATORY COMPLIANCE

- RoHS compliant
- SFP MSA (multi-source agreement)
- IEEE Std 802.3
- Fibre Channel Draft Physical Interface Specification
- Compliant with SONET/SDH optical standards

### PROTOCOLS AND DATA RATES

- Fast Ethernet (125Mbps)
- Gigabit Ethernet (1.25Gbps)
- SONET OC-3/OC-12/OC-48
- Fibre Channel (1G and 2G)

### CONNECTOR

- Simplex LC connector

### WARRANTY

- All feature a limited 5-year warranty

### NOTES

- Available in standard temperature: 0 to 70°C
- Available 'temperature hardened': -40 to 85°C

C1 PN	Wavelength (nm)	Fiber Type	Rated Distance (km)	Temp Range (°C)	Hardened Option Available <sup>1</sup>	Description	Output Power (min/max) (dBm)	Receiver Sensitivity (dBm)	Max. Input Power (dBm)
<b>SONET OC-48 (2.488 Gbps) - Multi-rate capable<sup>2</sup> (SONET OC-48/OC-12/OC-3, 1G and 2G Fibre Channel, Gigabit and Fast Ethernet)</b>									
OC48SFPxxBSRL	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	2	-5 to 70	Yes	2km rated (OC-48 SR) SF SFP, 1xx0nm	-8 to -3	-19	0
OC48SFPxxBIR1L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	15	-5 to 70	Yes	15km rated (OC-48 IR-1) SF SFP, 1xx0nm	-5 to 0	-19	0
OC48SFPxxBIR2L	1490Tx/1590Rx (xx=49) 1590Tx/1490Rx (xx=59)	SMF	40	-5 to 70	Yes	40km rated (OC-48 IR-2) SF SFP, 1xx0nm	-5 to 0	-19	0
OC48SFPxxBLR2L	1490Tx/1590Rx (xx=49) 1590Tx/1490Rx (xx=59)	SMF	80	-5 to 70	Yes	80km rated (OC-48 LR-2) SF SFP, 1xx0nm	-2 to 3	-28	-7
<b>Gigabit Ethernet (1.25 Gbps), 1G Fibre Channel (1.0625 Gbps)</b>									
1000SFPxxB20L	1310Tx/1490Rx (xx=31) 1490Tx/1310Rx (xx=49)	SMF	20	-5 to 75	Yes	20km SF GigE SFP, 1xx0nm	-7 to 1	-22	0
1000SFPxxB40L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	40	-5 to 75	Yes	40km SF GigE SFP, 1xx0nm	-5 to 0	-22	0
1000SFPxxB80L	1490Tx/1590Rx (xx=49) 1590Tx/1490Rx (xx=59)	SMF	80	-5 to 75	Yes	80km SF GigE SFP, 1xx0nm	-2 to 4	-26	0
<b>SONET OC-12 (622 Mbps)</b>									
OC12SFPxxBIR1L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	15	-10 to 70	Yes	SF OC-12 SONET SFP, IR-1, 1xx0nm	-14 to -8	-28	0
OC12SFPxxBLR1L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	40	-10 to 70	Yes	SF OC-12/ SONET SFP, LR-1, 1xx0nm	-3 to 2	-28	-3
OC12SFPxxBLR2L	1490Tx/1590Rx (xx=49) 1590Tx/1490Rx (xx=59)	SMF	80	-5 to 75	Yes	SF OC-12 SONET SFP, LR-2 1xx0nm	-2 to 4	-26	0
<b>SONET OC-3 (155 Mbps), Fast Ethernet<sup>3</sup> (125 Mbps)</b>									
OC3SFPxxBIR1L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	15	-10 to 70	Yes	SF OC-3/FastE 15km rated SFP, 1xx0nm	-14 to -8	-28	0
OC3SFPxxBLR1L	1310Tx/1550Rx (xx=31) 1550Tx/1310Rx (xx=55)	SMF	40	-10 to 70	Yes	SF OC-3/FastE 40km rated SFP, 1xx0nm	-5 to 0	-32	0
OC3SFPxxBLR2L	1490Tx/1590Rx (xx=49) 1590Tx/1490Rx (xx=59)	SMF	80	-10 to 70	Yes	SF OC-3/FastE 80km rated SFP, 1xx0nm	-5 to 0	-34	0

Notes:  
1. Hardened Option - operating temperature range is -40 to +85°C (-40 to +185°F). Optical specifications are the same. Part number has a "H" suffix. Example: 1000SFP31B20L-H  
2. Multi-rate transceivers will not operate in all platforms at all data rates listed. Contact your account representative for platform-specific questions.  
3. Fast Ethernet Compatible. Tested to Bellcore GR-253 and ITU-T G.957 Specifications for SONET OC-3/SDH STM-1 applications.

## SERVICE AND SUPPORT

Running a network or selling network services and products can be a highly competitive endeavor. To help differentiate your business and enable you to provide more cost effective infrastructure, you require a partner that provides competitive pricing and vertical market expertise. At Champion ONE we understand your needs. We leverage our skills and relationships to:

- Provide network design services and help you explore alternative network designs you may not have considered
- Provide technical and sales support when you need it
- Accept orders for same day shipment up to 5:00 PM EST
- Offer some of the longest warranties in the industry
- Offer a 30-day return policy
- Build a long-term supplier partnership with you

You can rely on Champion ONE, not only for the highest levels of availability for the products you need, but the technical support, customer service and cost consideration you deserve. Our goal is your complete satisfaction.

## GLOBAL HEADQUARTERS

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