

PASSPORT DATA SHEET

Dual Fiber SFP



Champion ONE's Dual Fiber SFP product line supports a variety of protocols over a wide range of distance and temperature options. These optics are fully MSA-compliant and offer direct compatibility with your existing switches and routers.

*Champion ONE **Passport** transceivers are programmed for universal compatibility across multiple OEM platforms. This open methodology reduces costs and unlocks operational simplicity by reducing sparing costs.*

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, 2G, 4G)
CPRI (2G, 3G, 4G)

DIMENSIONS

LxWxH (mm): 56.5 x 13.9 x 11.85

CONNECTOR

LC connector

WARRANTY

All feature a limited 5-year warranty

NOTES

Available in standard temperature: 0 to 70°C
Most parts available in industrial temperature ('temperature hardened'): -40 to 85°C

C1 Part Number	Wavelength (nm)	Fiber Type	Rated Distance (km)	Temp Range (°C)	Hardened Option Available ¹	Description	Output Power (min/max) (dBm)	Receiver Sensitivity (dBm)	Max. Input Power (dBm)
GIGABIT ETHERNET (1.25 GBPS), 1G FIBRE CHANNEL (1.0625 GBPS)									
1000SFP055	850	MMF	0.55	-20 / 85	Yes	550m Short Haul SFP	-9 / -3.5	-18	n/a
1000SFPMMX	1310	MMF	2	0 / 70	No	2km Extended Range SFP	-9 / -3.5	-18	0
1000SFP10	1310	SMF	10	0 / 70	Yes	10km Long Haul SFP	-9 / -3.5	-18	0
MR-SFP+E-LR	1310	SMF	10	0 / 70	Yes	Multi-rate 1G/10G Base-LR SFP+	-6 / -0.5	-15	0.5
1000SFP40R2	1310	SMF	40	-5 / 75	Yes	40km Intermediate Reach SFP Revision 2	-5 / 0	-22	0
1000SFP40	1310	SMF	40	-10 / 70	Yes	40km Intermediate Reach SFP	0 / 5	-22	0
1000SFP80	1550	SMF	80	-10 / 70	Yes	80km Extended Reach SFP	0 / 5	-22	0
1000SFP120	1550	SMF	120	-10 / 70	No	120km Extended Long Reach SFP	0 / 5	-30	-9
1000SFP160	1550	SMF	160	0 / 70	No	160km Extended Long Reach SFP	2 / 6	-34	-10

C1 Part Number	Wavelength (nm)	Fiber Type	Rated Distance (km)	Temp Range (°C)	Hardened Option Available ¹	Description	Output Power (min/max) (dBm)	Receiver Sensitivity (dBm)	Max. Input Power (dBm)
MEGABIT ETHERNET (155 MBPS)									
100SFP055	850	MMF	0.55	0 to 70	Yes	550m short-haul SFP, LC connector	-9 / -3	-24	-6
100SFP15	1310	SMF	15	0 to 70	No	15km long-haul SFP, LC connector	-15 / -7	-29	-8
FIBRE CHANNEL - MULTI-RATE CAPABLE (1G/2G FC)									
2000SFP-SX	850	MMF	0.5	0 to 70	No	Multirate 2G/1G SFP, MMF, 850nm, 500m SX	-9 / -3	-17	-3
2000SFP-LX	1310	SMF	15	0 to 70	Yes	Multirate 2G/1G SFP, SMF, 1310nm, 15km, LX	-5 / 0	-18	0
FIBRE CHANNEL - MULTI-RATE CAPABLE (1,2,4G FC)									
4000SFP10	1310	SMF	10	-10 / 70	-	Multirate 4G/2G/1G Long-Wavelength SFP	-8.4 / -1	-18	0
SONET OC-48 (2.488 GBPS) - MULTI-RATE CAPABLE² (SONET OC-48/OC-12/OC-3, 1G AND 2G FIBRE CHANNEL, GIGABIT AND FAST ETHERNET)									
SONET-MR-SFP-31-SR	1310	SMF	2	-40 / 85	-	Multirate SONET SFP, OC-48/12/3 2km SR	-9 / -3	-18	-3
SONET-MR-SFP-31-IR1	1310	SMF	15	-40 / 85	-	Multirate SONET SFP, OC-48/12/3 15km IR-1	-5 / 0	-19	0
SONET-MR-SFP-55-IR2	1550	SMF	40	0 / 70	Yes	Multirate SONET SFP, OC-48/12/3 40km IR-2	-2 / 3	-20	0
SONET-MR-SFP-31-LR1	1310	SMF	40	0 / 70	Yes	Multirate SONET SFP, OC-48/12/3 40km LR-1	-2 / 3	-28	-7
SONET-MR-SFP-55-LR2	1550	SMF	80	0 / 70	Yes	Multirate SONET SFP, OC-48/12/3 80km LR-2	0 / 5	-28	-9
SONET OC-12 (622 MBPS)									
SONET-OC12-SFP-31-SR	1310	SMF	2	0 / 70	Yes	OC12/STM-4 SONET/SDH SFP, SR	-15 / -8	-28	-8
SONET-OC12-SFP-31-IR	1310	SMF	15	0 / 70	Yes	OC12/STM-4 SONET/SDH SFP, IR-1	-15 / -8	-28	-8
SONET-OC12-SFP-31-LR1	1310	SMF	40	0 / 70	Yes	OC12/STM-4 SONET/SDH SFP, LR-1	-5 / 0	-28	-8
SONET-OC12-SFP-55-LR2	1550	SMF	80	0 / 70	Yes	OC-12/STM-4 SONET/SDH SFP, LR-2	-3 / 2	-28	-8
SONET OC-3 (155 MBPS), FAST ETHERNET³ (125 MBPS)									
SONET-OC3-SFP-31-VSR	1310	MMF	2	-40 / 85	-	OC-3/STM-1 SONET SFP, VSR	-20 / -15	-30	-14
SONET-OC3-SFP-31-SR	1310	SMF	2	0 / 70	Yes	OC-3/STM-1 SONET SFP, SR	-15 / -8	-28	-8
SONET-OC3-SFP-31-IR	1310	SMF	15	0 / 70	Yes	OC-3/STM-1 SONET SFP, IR-1	-15 / -8	-28	-8
SONET-OC3-SFP-31-LR1	1310	SMF	40	0 / 70	Yes	OC-3/STM-1 SONET SFP, LR-1	-7 / -2	-32	-10
SONET-OC3-SFP-55-LR2	1550	SMF	80	0 / 70	Yes	OC-3/STM-1 SONET SFP,LR-2	-5 / 0	-34	-10
2G CPRI									
2GSFPC-SR	850	MMF	.3	-40 / 85	-	2.458G CPRI SFP 850nm 300m Temp Hardened	-10 / -3	-18	-3
2GSFPC-LR	1310	SMF	10	-40 / 85	-	2.458G CPRI SFP 1310nm 10km Temp Hardened	-5 / 0	-19	0
2GSFPC-ER	1310	SMF	40	-40 / 85	-	2.458G CPRI SFP 1310nm 40km Temp Hardened	-2 / 3	-19	0
3G CPRI									
3GSFPC-SR	850	MMF	.3	-40 / 85	-	3.072G CPRI SFP 850nm 300m Temp Hardened	-9 / -3	-18	-3
3GSFPC-LR	1310	SMF	10	-40 / 85	-	3.072G CPRI SFP 1310nm 10km Temp Hardened	-5 / 0	-18	-1
3GSFPC-ER	1310	SMF	40	-40 / 85	-	3.072G CPRI SFP 1310nm 40km Temp Hardened	-2 / 3	-20	-1
4G CPRI									
4GSFPC-SR	850	MMF	.3	-40 / 85	-	4.915G CPRI SFP 850nm 300m Temp Hardened	-9 / -2.5	-18	0
4GSFPC-LR	1310	SMF	10	-40 / 85	-	4.915G CPRI SFP 1310nm 10km Temp Hardened	-6 / -1	-20	-0.5
4GSFPC-ER	1310	SMF	40	-40 / 85	-	4.915G CPRI SFP 1310nm 40km Temp Hardened	-1 / 4	-18	0.5

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: 1000SFP40-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.