

SFP Transceivers – 622Mbps

Description:

The 622Mbps series are hot pluggable Small-Form-Factor (SFP) duplex, bidirectional and CWDM transceiver modules expressly designed for high speed communication applications that requiring rates of up to 622 Mbps. The transceivers are manufactured with LC receptacle that is compatible with the industry LC connector standard. All SFP transceivers have the digital diagnostic monitor feature.



	Unit	SX	LX	HX	ZX	UX
Average output power (min / max)	dBm	-9 / -3	-15 / -8	-5 / 0	-3 / 2	0 / 5
Receiver sensitivity	dBm	-22	-28	-28	-28	-31
Overload	dBm	-3	-8	-8	-8	-10
Maximum distance	km	0.550	20	40	80	120
Fiber type	-	MMF	SMF	SMF	SMF	SMF
Optical link budget	dBm	13	13	23	25	31
Wavelength / laser type	nm	850 / VCSEL	1310 / FP	1310 / FP 1550 / DFB	1550 / DFB	1550 / DFB

Table 1: Basic technical specifications according to distance.

Temperature:

OPTOKON is always trying to satisfy as much market demand as possible and with this in mind, almost all OPTOKON SFP transceivers are manufactured in the commercial (D), extended (E) and industrial (I) temperature ranges to provide you all possibilities you need for your application.

Code	Temperature
D	0 °C to + 70 °C
E	-10 °C to + 80 °C
I	-40 °C to + 85 °C

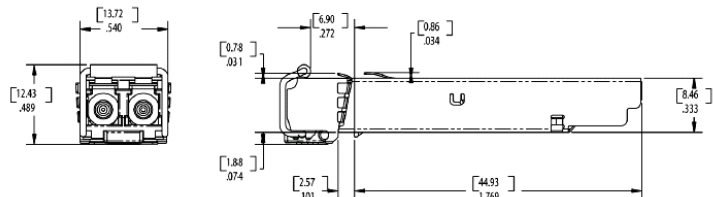
Table 2: temperature specifications.

Safety and regulatory compliance

Electrostatic discharge (ESD)	IEC/EN 61000-4-2
Electromagnetic Interference (EMI)	FCC Part 15 Class B EN 55022 Class B (CISPR 22A)
Laser Eye Safety	Class 1 laser product
Component Recognition	IEC/EN 60950, UL 2002/95/EC
ROHS	
EMC	EN61000-3

Digital diagnostics:

All OPTOKON SFP transceivers are assembled with digital diagnostic feature as a standard.



Picture 1: Transceiver dimensions schema.



Ordering codes for 622 Mbps SFP transceivers:

Standard series:

Part number:	Speed [Mbps]	Distance [km]	TX wavelength [nm]	Temperature [-]	Fiber [-]	Connector [-]
M622-V85-LP-dd-D-XX	622	SX	850nm	D, E, I	MMF	LC
S622-F31-LP-dd-D-XX	622	LX, HX	1310nm	D, E, I	SMF	LC
S622-D55-LP-dd-D-XX	622	HX, ZX	1550nm	D, E, I	SMF	LC
S622-D55-LP-dd-D-XX	622	UX	1550nm	D	SMF	LC

Bidirectional series:

Part number:	Speed [Mbps]	Distance [km]	TX wavelength [nm]	RX wavelength [nm]	Temperature [-]	Fiber [-]	Connector [-]
S622-W31/55-LP-dd-D-XX	622	LX, HX, ZX	1310	1550	D, E, I	SMF	LC
S622-W55/31-LP-dd-D-XX	622	LX, HX, ZX	1550	1310	D, E, I	SMF	LC
S622-W31/49-LP-dd-D-XX	622	LX	1310	1490	D, E, I	SMF	LC
S622-W49/31-LP-dd-D-XX	622	LX	1490	1310	D, E, I	SMF	LC
S622-W49/55-LP-dd-D-XX	622	UX	1490	1550	D	SMF	LC
S622-W55/49-LP-dd-D-XX	622	UX	1550	1490	D	SMF	LC

CWDM series:

Part number:	Speed [Mbps]	Distance [km]	TX wavelength [nm]	Temperature [-]	Fiber [-]	Connector [-]
S622-Cxx-LP-dd-D-XX	622	LX, HX, ZX	CWDM	D, E, I	SMF	LC

CWDM laser code:

yy/zz [-]	Wavelength [nm]	Clasp Color Code [-]	yy/zz [-]	Wavelength [nm]	Clasp Color Code [-]
27	1270	Gray	45	1450	Brown
29	1290	Gray	47	1470	Gray
31	1310	Gray	49	1490	Purple
33	1330	Purple	51	1510	Blue
35	1350	Blue	53	1530	Green
37	1370	Green	55	1550	Yellow
39	1390	Yellow	57	1570	Orange
41	1410	Orange	59	1590	Red
43	1430	Red	61	1610	Brown

ddcode [-]	Distance [km]
SX	0.550
LX	20
HX	40
ZX	80
UX	120

Temperature code examples:

To order SFP with extended or industrial temperature, please add temperature mark at the end of ordering number.

Code	Description
S622-D55-LP-HX-E-XX	Standard series, 1550nm, 40km, -10°C to +80°C operational temperature
S622-W31/55-LP-LX-I-XX	Bidirectional SFP series, 1310/1550 nm, 20 km, -40 °C to +80°C operational temperature