

CSFP Transceivers - 1.25 & 3.072 Gbps

Description:

OPTOKON's transceivers are compatible with the Compact Small Form- Factor Pluggable (CSFP) Multi-Source Agreement (MSA) option 2, The transceiver consists of 2channel Bi-directional Optical Transceiver unit with five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, type of laser (the DFB laser) and the PIN photo-detector. The optical output can be disabled by a TTL logic high-level input of Tx Disable, and the system also can disable the module via I2C. Tx Fault is provided to indicate that degradation of the laser. Loss of signal (LOS) output is provided to indicate the loss of an input optical signal of receiver or the link status with partner. The system can also get the LOS (or Link)/Disable/Fault information via I2C register access. Conventional SFP will function when plugged into a C-SFP socket, at the same time no damage to C-SFP and host board if C-SFP module is plugged into a conventional SFP socket



Specifications:

	Unit	1.25-LX	1.25-HX	SX-3.072	HX-3.072
Average output power (min / max)	dBm	-9 / - 3	-5 / 0	-9/ -3	-2 / 3
Receiver sensitivity	dBm	-19.5	-21	-19	-19
Overload	dBm	-9	-0,5	-3	0,5
Maximum distance	km	20	40	0.550	40
Fiber type	-	SMF	SMF	MMF	SMF
Optical link budget	dBm	10,5	16	10	17
Wavelength / laser type	nm	1310 / FP	1310 / DFB	1310 / FP	1310 / DFB
		1490/ DFB	1490/ DFB	1490 / FP	1490/ DFB

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

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)

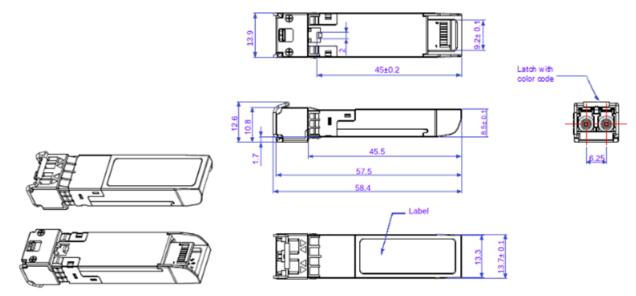
Laser Eye Safety Class 1 laser product Component Recognition IEC/EN 60950, UL

ROHS 2002/95/EC EMC EN 61000-3



Digital diagnostics:

All OPTOKON CSFP transceiver are assembled with digital diagnostic feature as a standard.



Ordering code:

Bidirectional series:

	Speed	Distance	Tx-Wavelength	Rx-Wavelength	Temperature	Fiber	Connector
	[Gbps]	[km]	[nm]	[nm]	[-]	[-]	[-]
S125-C31/49-CP-dd-D-XX		LX	1310	1490	D	SMF	LC
S125-C49/31-CP-dd-D-XX	1.25	HX	1490	1310	D	SMF	LC
S3-C31/49-CP-dd-D-XX	3.072	SX	1310	1490	D	MMF	LC
S3-C49/31-CP-dd-D-XX	3.072	HX	1490	1310	D	SMF	LC

Example:

Code	Description
S125-C31/49-CP-LX-D-XX	Bidirectional series, data rate 1.25 Gbps 1-cable: Tx-1310 and Rx-1490 cable 20 km, 0 $^{\circ}$ C to +70 $^{\circ}$ C operational temperature
S125-C49/31-CP-HX-D-XX	Bidirectional series, data rate 1.25 Gbps 1-cable: Tx-1490 and Rx-1310, 40 km, 0 $^{\circ}$ C to +70 $^{\circ}$ C operational temperature
	Bidirectional series, data rate 3.072 Gbps 1-cable: Tx-1310 and Rx-1490 and 2-cable Tx-1490 and Rx-1310, 550 m, 0 $^{\circ}$ C to +70 $^{\circ}$ C operational temperature
1 S 3 - 1 / 1 U / 3 1 - 1 U - H X - 1 1 - X X	Bidirectional series, data rate 3.072 Gbps 1-cable: Tx-1490 and Rx-1310, 40 km, 0 $^{\circ}$ C to +70 $^{\circ}$ C operational temperature

Distance code.

dd code [-]	Distance [km]
SX	0.550
LX	20
НХ	40