

1.25 Gbps 1000BASE SFP WIDE TEMPERATURE MODULES



Overview

BSD Small Form Factor Pluggable (SFP) transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). They simultaneously comply with Gigabit Ethernet as specified in IEEE STD 802.3 and 1x Fiber Channel as defined in FC-PI-2 Rev. 10.0. They are RoHS compliant and lead-free.

Cisco, HP and other brands coding available. (Please enquire for other brands)

Ratings

Parameter	Symbol	Min	Typ	Max	Unit
Maximum Supply Voltage	Vcc	0		+3.6	V
Storage Temperature	TS	-40		85	°C
Case Operating Temperature	TOP	-40		85	°C
Relative Humidity	RH	5		95	%

Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Supply Voltage	Vcc	3.15		3.45	V
Supply Current	Icc		180	300	mA
Transmitter					
Input differential impedance	Rin		100		Ω
Single ended data input swing	Vin, pp	250		1200	mV
Transmit Disable Voltage	VD	Vcc – 1.3		Vcc	V
Transmit Enable Voltage	VEN	Vee		Vee+ 0.8	V
Transmit Disable Assert Time				10	us
Receiver					
Single ended data output swing	Vout, pp	300	400	800	mV
Data output rise time	tr			260	ps
Data output fall time	tf			260	ps
LOS Fault	VLOS fault	Vcc – 0.5		VccHOST	V
LOS Normal	VLOS norm	Vee		Vee+0.5	V
Deterministic Jitter Contribution	RXΔDJ			80	ps
Total Jitter Contribution	RXΔTJ			122.4	ps

Ordering Information - DDM available (add DDM to the part number)

BSD-WGLCSXD	SFP, 1.25Gbps, 850nm, 3.3V 1000Base-FX Multi Mode SFP Module, 550m Wide temperature (-40 to 85°C)
BSD-WGLCLXD	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX Single Mode SFP Module, 20km Wide temperature (-40 to 85°C) Other distances available

Key Features

- Up to 1.25Gb/s dual data links
- Hot-pluggable SFP footprint
- 850 nm VCSEL Laser and PIN photo detector; 1310nm Fabry-Perot laser transmitter
- Duplex LC connector
- Up to 550m on 50/125µm ; up to 20 km on 9/125 µm on a SMF
- Metal enclosure for lower EMI
- Single 3.3V power supply
- Low power dissipation <700mW
- Industrial operating temperature range: **-40°C to 85°C (-40 to 185°F)**