

0061003019-VX

SFP 1000BASE-BX-D 1490nm/1310nm 40km Singlemode -40/+85°C



Features

- SFP Form factor
- 1G bitrate
- Up to 40km over Singlemode
- LC connector
- 1490nm/1310nm, DFB laser, PIN photodiode
- Up to 1W power consumption
- -40/+85°C temperature range
- Built in digital diagnostic monitoring
- INF-8074, SFF-8472 and SFF-8024 MSA compliant
- 1000BASE-BX-D 802.3ah compliant

Applications

- 1000BASE-BX-D 1G Ethernet

Optical specifications

Optical budget EOL: **20 dB**

Transmitter & Receiver optical Specifications

Parameter	Min	Max	Unit
Transmitter	-5	3	dBm
Receiver	-25	3	dBm

Parameter	Max	Unit
Dispersion penalty	N/A	dB

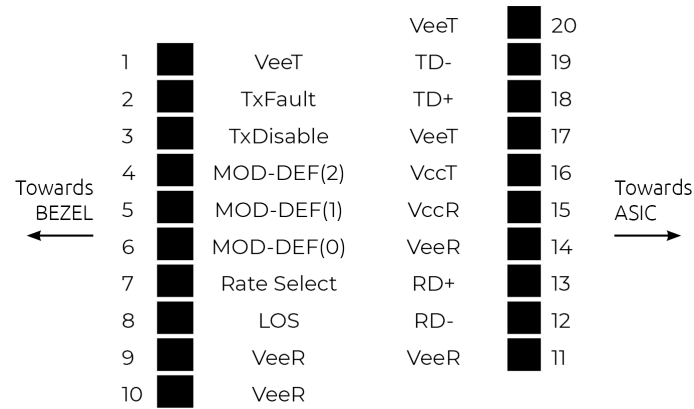
Protocols

- Ethernet 1G
- Ethernet 100M
- CPRI 3
- CPRI 1/2

Recommended operating conditions

Parameter	Value	Unit	Note
Storage temperature	-40/+85	°C	
Operating case temperature	-40/+85	°C	
Relative humidity	5 / 95	%	Non condensing
Power supply voltage	3.3	V	
Power supply current	303	mA	
Power cons.	1	W	
MTBF	N/A	h	Mean Time Before Failure

Transceiver electrical pad layout



Module electrical PIN definition

SFP - INF-8074, SFF-8472 and SFF-8024

PIN N°	Name	Function	Eng. order (insert.)
1	VeeT	Transmitter Ground	1
2	Tx_Fault	Transmitter Fault Indication	3
3	Tx_Disable	Transmitter Disable-Module disables on high or open	3
4	MOD-DEF2	Module Definition 2-Two Wire Serial Interface	3
5	MOD-DEF1	Module Definition 1-Two Wire Serial Interface	3
6	MOD-DEF0	Module Definition 0-Grounded in module	3
7	Rate Select	Not connected	3
8	LOS	Loss of Signal	3
9	VeeR	Receiver Ground	1
10	VeeR	Receiver Ground	1
11	Veer	Receiver Ground	1
12	RD-	Inverse Received Data out	3
13	RD+	Received Data out	3
14	VeeR	Receiver Ground	1
15	VccR	Receiver Power -+3.3V ±5%	2
16	VccT	Transmitter Power -+3.3V ±5%	2
17	VeeT	Transmitter Ground	1
18	TD+	Transmitter Data In	3
19	TD-	Inverse Transmitter Data In	3
20	VeeT	Transmitter Ground	1