

0061701811-03-VX

SFP+ 10GBASE-LR 1310nm 10km Singlemode

Simplified BOM: SFP-10G-xx-x



Features

- SFP+ Form factor
- 10G bitrate
- Up to 10km over Singlemode
- LC connector
- 1310nm, DFB laser, PIN photodiode
- Up to 1W power consumption
- +0/+70°C temperature range
- Built in digital diagnostic monitoring
- INF-8074, SFF-8472 and SFF-8024 MSA compliant
- 10GBASE-LR 802.3ae compliant

Applications

- 10GBASE-LR 10G Ethernet

Optical specifications



Optical budget EOL: **6.2 dB**

Transmitter & Receiver optical Specifications

Parameter	Min	Max	Unit
Transmitter	-8.2	0.5	dBm
Receiver	-14.4	0.5	dBm

Parameter	Max	Unit
Dispersion penalty		dB

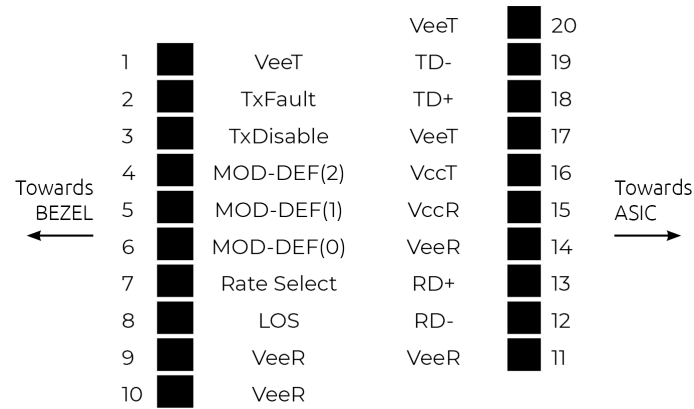
Protocols

- Ethernet 10G

Recommended operating conditions

Parameter	Value	Unit	Note
Storage temperature	+0/+70	°C	
Operating case temperature	+0/+70	°C	
Relative humidity	5 / 95	%	Non condensing
Power supply voltage	3.3	V	
Power supply current	303	mA	
Power cons.	1	W	
MTBF	6289975.42	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