

SFP-10GBASE-T-E-OPC

MSA and TAA 100/1000/10000Base-TX SFP+ Transceiver (Copper, 30m, RJ-45, -5 to 85C)

Features

- SFF-8432 Compliance
- RJ-45 Connector
- Copper Media Type
- Extended Temperature -5 to 85 Celsius
- Hot Pluggable
- Metal with Lower EMI
- Excellent ESD Protection
- RoHS Compliant and Lead Free



Applications:

- 10GBase Ethernet

Product Description

This MSA compliant SFP+ transceiver provides 100/1000/10000Base-TX throughput up to 30m over a copper connection via a RJ-45 connector. It can operate at temperatures between -5 and 85C. This TX module supports 100/1000/10000Base auto-negotiation and can be configured to fit your needs. All of our transceivers are built to comply with Multi-Source Agreement (MSA) standards and are uniquely serialized and tested for data-traffic and application to ensure seamless network integration. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Maximum Supply Voltage	V _{CC}	3.135	3.6	VDC
Storage Temperature	T _S	-40	85	°C
Operating Case Temperature	T _C	-5	85	°C
Operating Humidity	RH	5	95	%
Maximum Bitrate	B _{max}		11.4	Gbps

Electrical Characteristics (TOP=25°C, V_{CC}=3.3Volts)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Power Supply Voltage	V _{CC}	3.135	3.30	3.465	V	
Low Speed Input Voltage		-0.5		V _{CC} +0.3	V	
Two-Wire Interface Input Voltage		-0.3		V _{CC} +0.5	V	
Power (30m @ 25C ambient)			2.3	2.5	W	

Pin Descriptions

Pin	Symbol	Name/Descriptions	Ref.
1	VeeT	Transmitter Ground	1
2	Tx_Fault	Transmitter Fault LVTTTL-O	2
3	Tx_Disable	Transmitter Disable LVTTTL-I	
4	SDA	2-wire Serial Interface Data Line LVTTTL-I/O	
5	SCL	2-wire Serial Interface Clock LVTTTL-I/O	
6	Mod_ABS	Module Absent, connect to VeeT or VeeR in the module	
7	RS0	Rate Select 0 LVTTTL-I	
8	Rx_LOS	Receiver Loss of Signal Indication LVTTTL-O	2
9	RS1	Rate Select 1 LVTTTL-I	
10	VeeR	Receiver Ground	1
11	VeeR	Receiver Ground	1
12	RD-	Receiver Inverted Data Output CML-O	
13	RD+	Receiver Non-Inverted Data Output CML-O	
14	VeeR	Receiver Ground	1
15	VccR	Receiver 3.3V Supply	
16	VccT	Transmitter 3.3V Supply	
17	VeeT	Transmitter Ground	1
18	TD+	Receiver Inverted Data Output CML-I	
19	TD-	Transmitter Inverted Data Input CML-I	
20	VeeT	Module Transmitter Ground	1

Notes:

1. The module signal grounds should be isolated from the module case.

Mechanical Specifications

