

10G SFP+ AOC

(RoHS Compliant)

FEATURES

- ◆ Cost Effective 10G SFP+ SR solution
- ◆ 1 Channel up to 10.3125Gbps/lane
- ◆ Fiber link up to 100 meters
- ◆ Hot-Pluggable Interface
- ◆ Low latency, low weight, and low power consumption
- ◆ Compliant with SFF-8431,8432,8472, Fiber Channel Physical Interface
- ◆ EMI performance match FCC class B
- ◆ RX_LOS and TX_DISABLE supported
- ◆ BER better than 10^{-12}
- ◆ Storage, Network, Server, NIC
- ◆ Low power AOC solution

OVERVIEW

OPTOWAY is devoted to providing reliable and outstanding active optical cables (AOC) company. OPTOWAY 10G SFP+ AOC is a high-speed solution with cost-effective design which can extend to 100m.

It is compatible with 1G/10G Ethernet(10GbE), Fiber Channel 1G,2G,4G,8G (1/2/4/8GFC), 1x InfiniBand SDR,DDR, QDR applications.

ORDER INFORMATION

AOC – SS VV SP C - LLL G

<u>Speed</u>	<u>Version</u>	<u>FiberCable</u>	<u>Length(m)</u>
21: 10G	01	A: OM1 B: OM2 C: OM3	003: 3 010: 10 020: 20 030: 30 100: 100

1.1. Environmental specifications

Parameter	Min	Max	Units	Note
Operating case temperature	0	70	°C	
Storage temperature	-20	85	°C	
Operating relative Humidity	5	85	%	
Max Supply Voltage	-0.5	3.6	V	

1.2. Operating Specifications

Parameter	Min	Typ	Max	Units	Note
Supply voltage	3.15		3.45	V	
Supply current	90	110(*1)	140	mA	Per end
Power consumption		0.35(*1)	0.45	W	Per end @3.3V
Data rate	1		10.3125	Gbps	
BER		<10 ⁻¹²		Err/bits	
Input swing	300		1200	mV	differential
Output swing	300		850	mV	differential

*1 Note1: Normal power version

1.3. Contact Description

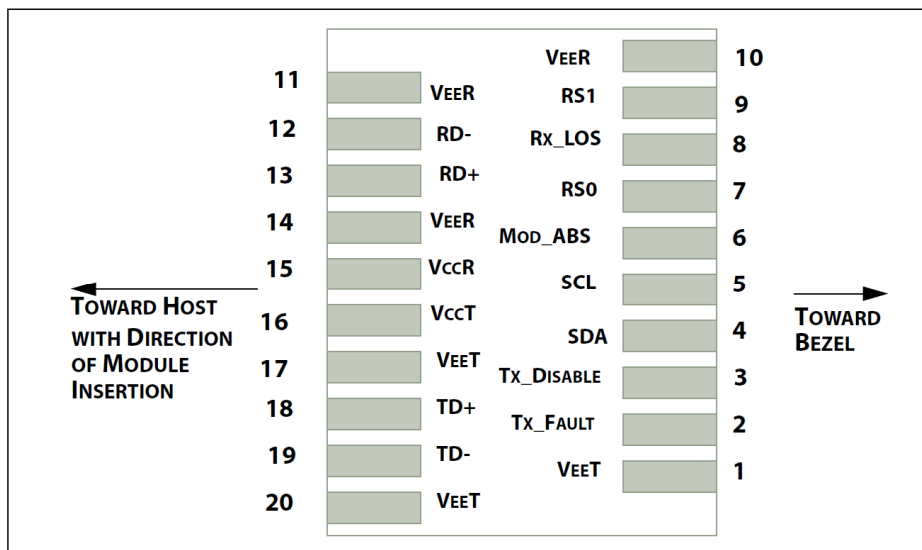


Figure1.6 Host PCB SFP+ pad assignment top view

1.4. Pin Descriptions

Pin	Symbol	Description	Note
1	VeeT	Module Transmitter Ground	
2		Module Transmitter Fault	
3	Tx Dis	Transmitter Disable	
4	SDA		
5	SCA		
6		Module Absent	
7		Rate Select 0	1
8	LOS	Receiver Loss of Signal	
9	RS1	Rate Select 1	1
10	VeeR	Module Receiver Ground	
11	VeeR	Module Receiver Ground	
12		Receiver Inverted Data Output	
13	Rd +	Receiver Non Inverted Data Output	
14	VeeR	Module Receiver Ground	
15	VccR	Module Receiver 3.3V Supply	
16	VccT	Module Transmitter 3.3V Supply	
17	Veet	Module Transmitter Ground	
18	TD+	Transmitter Non Inverted Data Input	
19		Transmitter Inverted Data Input	
20	VeeR		

Note1 :RS0/1 – no support.

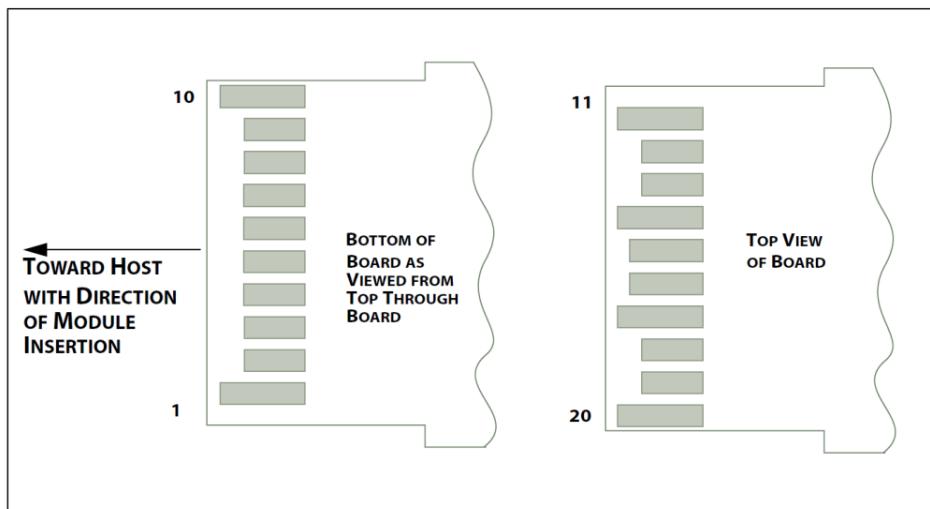


Figure1.7 SFP+ module contact assignment

1.5. 10G SFP+ AOC Mechanical Dimensions

