

Features

Electrical interface compliant to SFF-8431

Hot Pluggable

 850nm VCSEL transmitter, PIN photo-detector receiver

Up to 300m on OM3 MMF

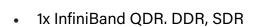
Operating case temperature: 0 to 70°C

 All-metal housing for superior EMI performance

RoHS compliant (lead free)

Applications

- 10 Gigabit Ethernet
- 4G and 8G Fibre Channel Applications



- High-performance computing clusters
- Servers, switches, storage and host card adapters



Parameter	Description		
Module Form Factor	SFP+ (Supports SFF8431/SFF8432/SFF8472)		
Protocols Supported	InfiniBand, Ethernet, Fiber Channel		
Channel Data Rate	Rate 1 to 10.3125Gbps		
BER	<10-12		
Operating Case Temperature	0 to + 70°C		
Storage Temperature	-20 to + 85°C		
Supply Voltage	3.3V		
Supply current	230mA per end typical		
Management Interface Serial	I ² C (Supports SFF8472)		



2. Optical Characteristics

The following optical characteristics are defined over the Recommended Operating Environment unless otherwise specified.

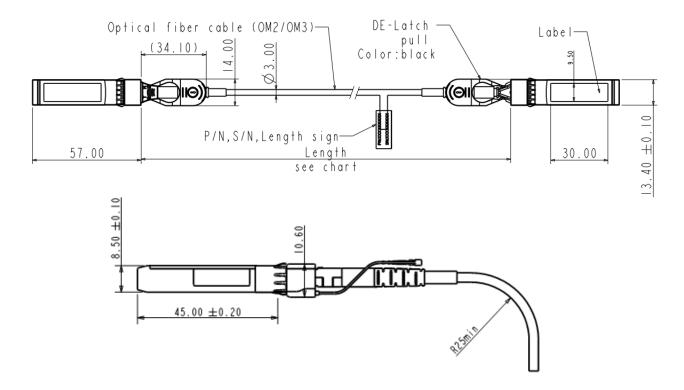
Parameter	Symbol	Min.	Typical	Max	Unit	Notes			
Transmitter									
Center Wavelength	λt	840	850	860	nm				
RMS spectral width	Pm	-	-	Note 1	nm				
Average Optical Power	Pavg	-6.5	-	-1	dBm	2			
Extinction Ratio	ER	3.5	-	-	dB	3			
Transmitter Dispersion Penalty	TDP	-	-	3.9	dB				
Relative Intensity Noise	Rin	-	-	-128	dB/Hz	12dB reflection			
Optical Return Loss Tolerance		-	-	12	dB				
Receiver									
Center Wavelength	λr	840	850	860	nm				
Receiver Sensitivity	Psens	-	-	-11.1	dBm	4			
Stressed Sensitivity in OMA		-	-	-7.5	dBm	4			
Los function	Los	-30	-	-12	dBm				
Overload	Pin		-	-1.0	dBm	4			
Receiver Reflectance		-	-	-12	dB				

Note:

- 1. Trade-offs are available between spectral width, center wavelength and minimum OMA, as shown in table 6.
- 2. The optical power is launched into MMF
- 3. Measured with a PRBS 231-1 test pattern @10.3125Gbps
- 4. Measured with a PRBS 231-1 test pattern @10.3125Gbps,BER≤10-12.



3. Mechanical Diagram



Note: External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.



4. Ordering Information

Our 10GBase SFP+ Multi-vendor active optical cables come in varying lengths and OEM connection options. To build the perfect fit for you, please view how to create your part number below.

Example:

For a **Brocade** to **Cisco** AOC measuring the length of **1m**, the part number would be as follows: SFP10G-BRCS-AOC-1M.

Please note that OEM abbreviations should be listed in alphabetical order.

Sample	OEM	OEM Abbreviations	Length <l></l>
	Arista	AN	1m
	Brocade	BR	3m
	Cisco	CS	5m
SFP10G-XXXX-AOC- <l>M</l>	Dell	DF	7m
	Intel	IN	10m
	Juniper	JN	12m
	Mellanox	MX	15m
	MSA	MS	20m
	-	-	25m

5. Contact Information

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