

# SFP+

## Active Optical Cable



### STANDARDS COMPLIANCE

- CISPR22 ITE Class B, EN55022 Class B compliant
- IEC61000-4-3 Class 2, EN55024

- Compatible with industry standard SFP cages + Switches
- EEPROM signature can be customized.

### APPLICATION

- 10Gbps data link
- High Performance Computing Clusters
- High End Servers
- Metro Network Switch/Cross Connect

Fiberon's SFP+ AOC (Active Optical Cable) is designed for high speed 10GB/sec data links via optical fiber cable. SFP+ AOC provide high performance Enhanced Small Form Factor Pluggable (SFP+) interface and is a cost effective solution for Data Center / storage and all short range data application.

SFP+ cable assemblies are hot swappable and the programmed EEPROM signature enables the host to differentiate between a copper cable assembly and a fiber optic module.

Low power consumption assists in making the passive copper cable assembly an economic solution for within rack, or rack-to-rack applications.

### RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Top	0		70	°C
Power Supply Voltage	VCCT,R	3.14	3.30	3.46	V
Data Rate			10.3125	10.52	Gb/s
Power Supply Current	Icc		75	110	mA

### FEATURES

- RoHS / REACH Compliant
- Operation Case Temperature: 0~70
- Typical Fiber Length 10m / 30m / 50m / 100m
- Hot pluggable
- Single 3.3V power supply
- Low Power Consumption
- SFP+ PIN and Dimension Compliant
- Metal enclose for lower EMI

## 10Gb/s SFP+ Active Optical Cable Assembly.



## MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit	Notes
Storage Temperature	Ts	-10	70	°C	
Relative Humidity	RH	20	80	%	Non condensing
Power Supply Voltage	VccT,R	0	3.8	V	

## PRODUCT CHARACTERISTICS

Parameter	Symbol	Min	Typ.	Max	Unit	Notes
<b>Transmitter</b>						
Typical Fiber Length	L			10 30 50 100	m	SAA-xA10M SAA-xA30M SAA-xA50M SAA-xAH1M
Differential Data Input Voltage	VIH-VIL	200		800	mVpp	Internal AC coupled
Differential Input Impedance	RIN		100		Ω	
TX-Disable Input Voltage-Low	VIL	0		0.8	V	1
TX-Disable Input Voltage-High	VIH	2.0		Vcc	V	1
TX-Fault Output Voltage-Low	VOL	0		0.8	V	2
TX-Fault Output Voltage-High	VOH	2.0		Vcc	V	2
<b>Receiver</b>						
Differential Data Output Voltage	VOH-VOL	300		800	mV	Internal AC coupled
Differential Output Impedance	ROUT		100		Ω	
LOS-Asserted Output - Voltage-Low	VOL	0		0.8	V	2
LOS-Deasserted Output - Voltage-High	VOH	2.0		Vcc	V	2

### Notes:

1. TX-Disable has an internal 4.7KΩ to 10KΩ pull-up to VccT
2. Measure with 4.7KΩ pull-up to Vcc on host board

## ORDER CODES

CODE	TYPE	CABLE LENGTH	CABLE TYPE
F4M-AOC	SFPP-F (Fiber)	SFP+ Assembly	1 1m
			3 3m
			5 5m
			7 7m
			10 10m
			S Specify

### Note:

- 1) Various cable lengths available for all types
- 2) Long lengths available
- 3) latch/tab available "On top or "Bottom" position

**F4M-AOC - SFPP - F - S - S**

Specifications may change without notice. Display Product Photos Shown are samples for viewing, not actual products. Colours and styles may vary.

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