

SV-AOC-10GT3T3-xM

SFP+ Active Optical Cable, 1m;3m;5m;7m;10m;15m Reach



Features

- Up to 11.1Gbps Data rate per channel
- Maximum link length of 300m links on OM3 multimode fiber
- High Reliability 850nm VCSEL technology
- Electrically hot-pluggable
- Electrical interface compliant to SFF-8431
- Case operating temperature range:0°C to 70°C
- Power dissipation < 1.0W per cable end

Applications

- 10G Ethernet
- Infiniband QDR
- Fiber channel
- HPC Interconnections

Ordering Information

Part number	Description
SV-AOC-10GT3T3-1M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 1m
SV-AOC-10GT3T3-3M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 3m
SV-AOC-10GT3T3-5M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 5m
SV-AOC-10GT3T3-7M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 7m
SV-AOC-10GT3T3-10M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 10m
SV-AOC-10GT3T3-15M	Starview SFP+ Active Optical Cable module supporting Gigabit Ethernet 1GE/10GE, Fiber Channel 1G/ 2G/ 4G/ 8G, distance up to 15m

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit
Storage Temperature	Ts	-40	-	85	°C
Relative Humidity	RH	5	-	95	%
Power Supply Voltage	VCC	-0.3	-	4	V
Signal Input Voltage		Vcc-0.3	-	Vcc+0.3	V

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Case Operating Temperature	Tcase	0	-	70	°C	Without air flow
Power Supply Voltage	VCC	3.14	3.3	3.46	V	
Power Supply Current	ICC	-		300	mA	per cable end
Data Rate	BR		10.3125		Gbps	

General Product Characteristics

Parameter	Symbol	Min.	Typ.
Module Form Factor	SFP+		
Maximum Data Rate	11.1		Gb/s
Standard Cable Lengths	3, 5, 7, 10, 50, 100		meters
Protocols Supported	Typical applications include Infiniband, Fibre Channel, 10G Ethernet		
Electrical Interface and Pin-out	20-pin edge connector		Pin-out as defined by the SFP+ MSA
Standard Optical Cable Type	Multimode ribbon fiber cable assembly		
Maximum Power Consumption per End	1.0		W
Management Interface	Serial, I2C-based, 400 kHz maximum frequency		As defined by the SFP+ MSA

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Supply Voltage	VccT,VccR	3.14	3.3	3.46	V	
Supply Current	Icc			300	mA	

Transmitter						
Differential data input swing	Vin,pp	180		1000	mV	1
Single ended input voltage tolerance	VinT	-0.3		4.0	v	

Receiver						
Differential data output swing	Vout,pp	300		850	mV	2
Single-ended output voltage		-0.3		4.0	v	

Note(1): AC coupled internally. Self-biasing 100Ω differential input.

Note(2): AC coupled with 100Ω differential output impedance.