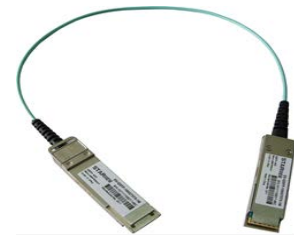


SV-QSFP-100GT4T4-XXM

Starview QSFP28 100Gbps Active Optical Cable module, distance up to 1m;3m;5m;7m;10m



Features

- 4 independent full-duplex channels
- Up to 28Gb/s data rate per channel
- QSFP MSA compliant
- Up to 100m OM4 MMF transmission
- Operating case temperature: 0 to 70 °C
- Single 3.3V power supply
- Maximum power consumption 3.5W each terminal
- RoHS-6 compliant

Applications

- 100G Ethernet
- Infiniband EDR

Ordering Information

Part number	Description
SV-QSFP-100GT4T4-1M	Starview QSFP28 100Gbps Active Optical Cable module, distance up to 1m
SV-QSFP-100GT4T4-3M	Starview QSFP28 100Gbps Active Optical Cable module, distance up to 3m
SV-QSFP-100GT4T4-5M	Starview QSFP28 100Gbps Active Optical Cable module, distance up to 5m
SV-QSFP-100GT4T4-7M	Starview QSFP28 100Gbps Active Optical Cable module, distance up to 7m
SV-QSFP-100GT4T4-10M	Starview QSFP28 100Gbps Active Optical Cable module, distance up to 10m

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit
Storage Temperature	T _S	-40		85	°C
Operating Case Temperature	T _{OP}	0		70	°C
Power Supply Voltage	V _{CC}	-0.5		3.6	V
Relative Humidity (non-condensation)	RH	0		85	%

Recommended Operating Conditions and Power Supply Requirements

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Case Temperature	T _{OP}	0		70	°C
Power Supply Voltage	V _{CC}	3.135	3.3	3.465	V
Data Rate, each Lane			25.78125	28.05	Gb/s
Control Input Voltage High		2		V _{CC}	V
Control Input Voltage Low		0		0.8	V

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Power Consumption, each Terminal				3.5	W	
Supply Current, each Terminal	I _{CC}			1060	mA	
Transceiver Power-on Initialization Time				2000	ms	1
Transceiver (each lane)						
Single Ended Input Voltage Tolerance (Note 2)		-0.3		3.6	V	
AC Common Mode Input Voltage Tolerance		15			mV	RMS
Differential Input Voltage Swing Threshold		50			mV _{pp}	LOSA Threshold
Differential Input Voltage Swing	V _{in,pp}	180		1000	mV _{pp}	
Differential Input Impedance	Z _{in}	90	100	110	Ohm	
Total Jitter				0.40	UI	
Deterministic Jitter				0.15	UI	
Rx(each lane)						
Single Ended Output Voltage		-0.3		4	V	
AC Common Mode Output Voltage				7.5	mV	RMS
Differential Output Voltage Swing	V _{out,pp}	300		1000	mV _{pp}	
Differential Output Impedance	Z _{out}	90	100	110	Ohm	
Total Jitter				0.3	UI	
Deterministic Jitter				0.15	UI	

Note(1): Power-on Initialization Time is the time from when the power supply voltages reach and remain above the minimum recommended operating supply voltages to the time when the module is fully functional.

Note(2): The single ended input voltage tolerance is the allowable range of the instantaneous input signals.