

SV-DAC-100GT4T4-XM

Starview QSFP28 100Gbps Direct Attach Cable modules, distance up to 1m;3m;5m



Features

- Compliant with SFF- 8665
- Up to 28.3125Gbps data rate per channel
- Up to 5m transmission
- Operating temperature: 0~70°C
- Single 3.3V power supply
- RoHS compliant

Applications

- 100G Ethernet

Ordering Information

Part number	Description
SV-DAC-100GT4T4-1M	Starview QSFP28 100Gbps Direct Attach Cable modules, distance up to 1m.
SV-DAC-100GT4T4-3M	Starview QSFP28 100Gbps Direct Attach Cable modules, distance up to 3m.
SV-DAC-100GT4T4-5M	Starview QSFP28 100Gbps Direct Attach Cable modules, distance up to 5m.

General Product Characteristics

QSFP+ DAC Specifications	
Number of Lanes	Tx & Rx
Channel Data Rate	28.3125 Gbps
Operating Temperature	0 to + 70°C
Storage Temperature	-40 to + 85°C
Supply Voltage	3.3 V nominal
Electrical Interface	38 pins edge connector
Management Interface	Serial, I ² C

High Speed Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Note
Differential Impedance	TDR	90	100	110	Ω	
Insertion loss	SDD21	-22.48		-8	dB	At 12.8906 GHz
Differential Return Loss	SDD11	-12.45		See 1	dB	At 0.05 to 4.1 GHz
	SDD22	-3.12		See 2	dB	At 4.1 to 19 GHz
Common-mode to common-mode output return loss	SCC11			-2	dB	At 0.2 to 19 GHz
	SCC22					
Differential to common mode return loss	SCD11	-12		See 3	dB	At 0.01 to 12.89 GHz
	SCD22					
Differential to common Mode Conversion Loss	SCD21-IL			-10	dB	At 0.01 to 12.89 GHz
				See 5		At 12.89 to 15.7 GHz
				-6.3		At 15.7 to 19 GHz
Channel Operating Margin	COM			-	dB	
				3		

Notes:

1. Reflection Coefficient given by equation $SDD11(dB) < -16.5 + 2 \times \text{SQRT}(f)$, with f in GHz
2. Reflection Coefficient given by equation $SDD11(dB) < -10.66 + 14 \times \log_{10}(f/5.5)$, with f in GHz
3. Reflection Coefficient given by equation $SCD11(dB) < -22 + (20/25.78)*f$, with f in GHz
4. Reflection Coefficient given by equation $SCD11(dB) < -15 + (6/25.78)*f$, with f in GHz
5. Reflection Coefficient given by equation $SCD21(dB) < -27 + (29/22)*f$, with f in GHz