

SV-DAC-40GT4T4-XM

Starview QSFP+ 40Gbps Direct Attach Cable modules, distance up to 1m; 3m;5m;7m.



Features

- Compliant with SFF- 8436.
- Up to 10.3125Gbps data rate per channel
- Up to 7m transmission
- Operating temperature: -40°C to +80°C
- Single 3.3V power supply
- RoHS compliant

Applications

- 40G Ethernet
- Cost-effective copper solution
- Lowest total system power solution
- Lowest total system EMI solution
- Optimized design for Signal Integrity

Ordering Information

Part number	Description
SV-DAC-40GT4T4-1M	Starview QSFP+ 40Gbps Direct Attach Cable modules, distance up to 1m.
SV-DAC-40GT4T4-3M	Starview QSFP+ 40Gbps Direct Attach Cable modules, distance up to 3m.
SV-DAC-40GT4T4-5M	Starview QSFP+ 40Gbps Direct Attach Cable modules, distance up to 5m.
SV-DAC-40GT4T4-7M	Starview QSFP+ 40Gbps Direct Attach Cable modules, distance up to 7m.

General Product Characteristics

QSFP+ DAC Specifications	
Number of Lanes	Tx & Rx
Channel Data Rate	10.3125 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	-17.04		-3	dB	At 5.15625 GHz
Differential Return Loss	SDD11			See 1	dB	At 0.05 to 4.1 GHz
	SDD22			See 2	dB	At 4.1 to 11.1 GHz
Differential to common-mode return loss	SCD11			-10	dB	At 0.2 to 11.1 GHz
	SCD22					
Common-mode to common- mode output return loss	SCC11			See 3	dB	At 0.01 to 2.5 GHz
	SCC22			-3		At 2.5 GHz to 11.1 GHz
Channel Operating Margin	COM	3			dB	

Notes:

1. Reflection Coefficient given by equation $SDD11(dB) < -12 + 2 \times \text{SQRT}(f)$, with f in GHz
2. Reflection Coefficient given by equation $SDD11(dB) < -6.3 + 13 \times \log_{10}(f/5.5)$, with f in GHz
3. Reflection Coefficient given by equation $SCC11(dB) < -7 + 1.6 \times f$, with f in GHz