

SV-DAC-100GT4T3-XM

Starview QSFP28 100Gbps to 4 x 25Gbps SFP28 Direct Attach Break-out Cable modules, distance up to 1m;3m;5m



Features

- Compatible with IEEE 802.3bj, IEEE 802.3by and InfiniBand EDR
- Supports aggregate data rates of 100Gbps
- Optimized construction to minimize insertion loss and cross talk
- Backward compatible with existing QSFP+ connectors and cages
- Pull-to-release slide latch design
- 26AWG through 30AWG cable
- Straight and break out assembly configurations available
- Customized cable braid termination limits EMI radiation
- Customizable EEPROM mapping for cable signature
- RoHS compliant

Applications

- Switches, servers and routers
- Data Center networks
- Storage area networks
- High performance computing
- Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

Ordering Information

Part number	Description
SV-DAC-100GT4T3-1M	Starview QSFP28 100Gbps to 4 x 25Gbps SFP28 Direct Attach Break-out Cable modules, distance up to 1m
SV-DAC-100GT4T3-3M	Starview QSFP28 100Gbps to 4 x 25Gbps SFP28 Direct Attach Break-out Cable modules, distance up to 3m
SV-DAC-100GT4T3-5M	Starview QSFP28 100Gbps to 4 x 25Gbps SFP28 Direct Attach Break-out Cable modules, distance up to 5m

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	-10.58		See 4		At 12.89 to 19 GHz
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			-3	dB	

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