

DA-SFP-Plus-Xm, Соединители, SFP+ Direct Attach

Соединители моделей DA-SFP-Plus-Xm являются сборками двух модулей SFP+ без оптических фотоприемников и передатчиков, соединенных между собой электрическим TWINAX кабелем.

Особенности:

- поддержка от 1Gb/s до 10.5Gb/s bit rates
- соответствие SFP+ MSA стандартам
- 24 / 30 AWG TWINAX кабель (витая пара)
- низкое энергопотребление < 0.5W



Model	Data Rate	Media type	Distance
DA-SFP-Plus-1m	Up to 10.5G	30 AWG TP	Up to 1m
DA-SFP-Plus-2m	Up to 10.5G	30 AWG TP	Up to 2m
DA-SFP-Plus-3m	Up to 10.5G	30 AWG TP	Up to 3m
DA-SFP-Plus-5m	Up to 10.5G	24 AWG TP	Up to 5m
DA-SFP-Plus-7m	Up to 10.5G	24 AWG TP	Up to 7m

Normal operating condition

Parameter	Symbol	Min	Typ	Max	Units	Ref.
Operating Case Temperature	Top	0		70	°C	
Supply Voltage	Vcc	3.14	3.3	3.47	V	
Power Consumption	P			0.5	W	
Data Rate		1		10.5	Gbps	

Performance Specifications – Electrical

Parameter	Symbol	Min.	Typ.	Max	Unit	Notes
Supply Current	Icc	-	-	100	mA	Note3
Transmitter Differential Input Voltage (PECL)	V _{IN}	250	-	1200	mV _{pp}	
Receiver Differential Output Voltage (PECL)	V _O	185	-	1000	mV _{pp}	
Impedance	Z _{cable}	90	100	110	Ohms	

DA-SFP-Plus-Xm, Соединители, SFP+ Direct Attach

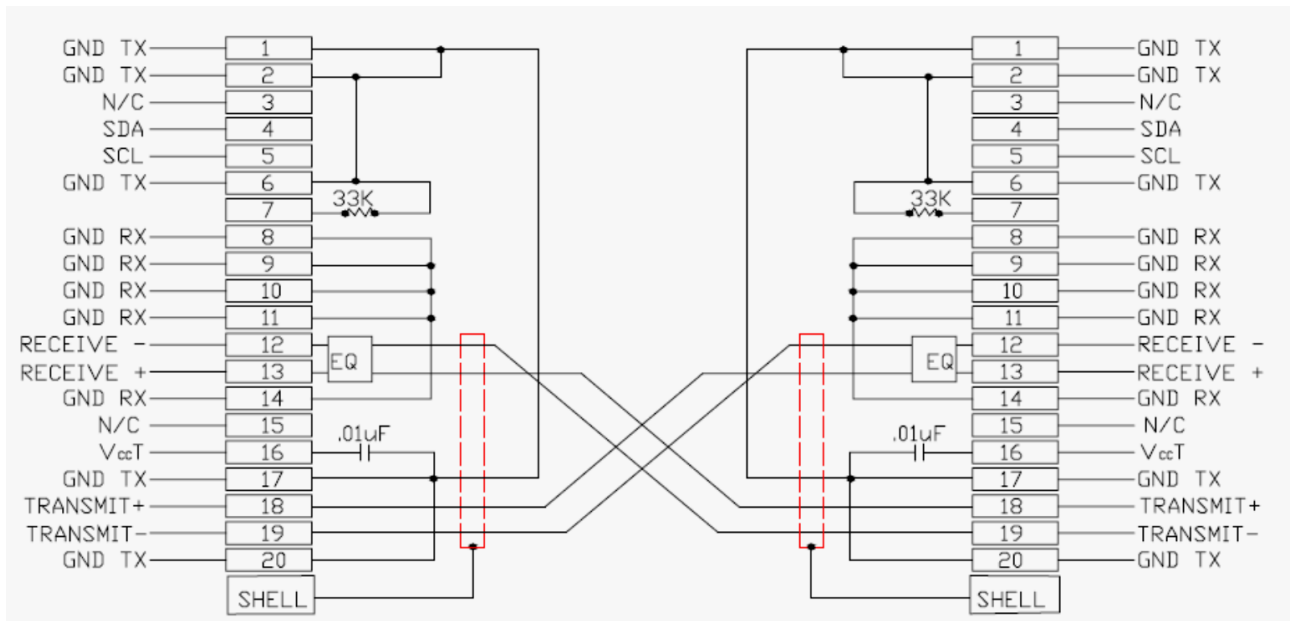
MOD-DEF1, 2	V _{IN}	2.0	-	V _{CC}	V	
-------------	-----------------	-----	---	-----------------	---	--

Note3: The supply current includes SFP Module's supply current and test board working current.

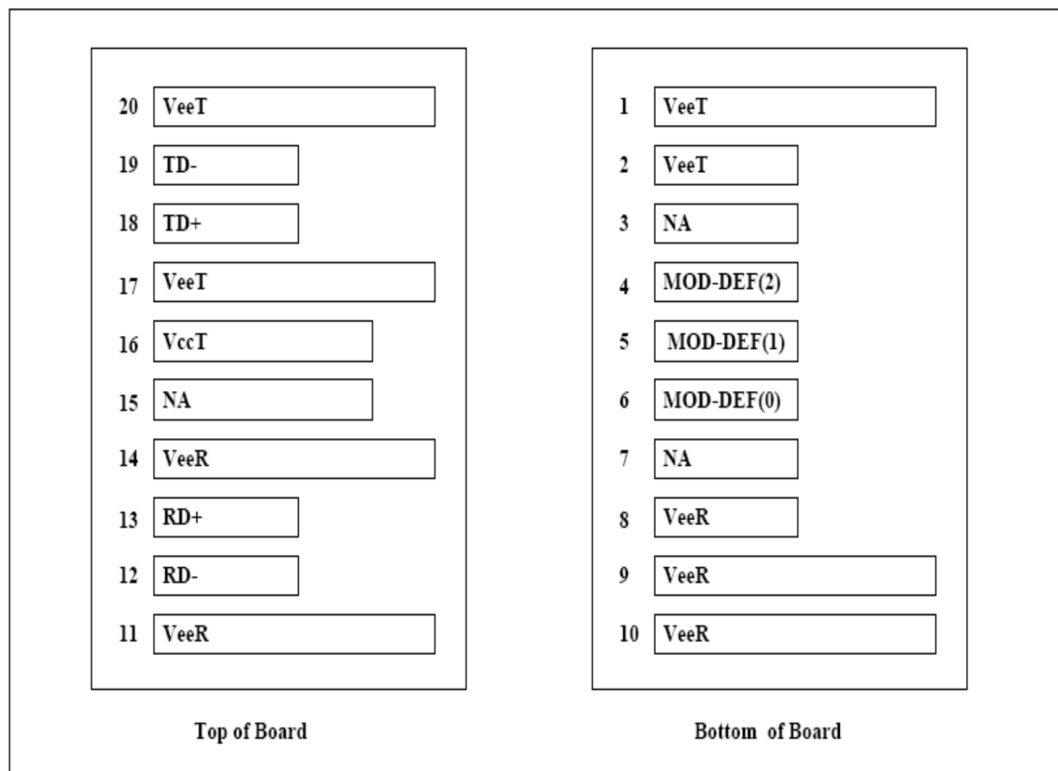
Physical Data

Parameter	Description	30AWG	24AWG.	Units
Cable Diameter	OD	4.5	6.5	mm
Bend Radius	Minimum Sustained Bend	25	35	mm

Reference Interface



Pin Descriptions



Pin No.	Logic	Symbol	Name/Description	Note
1		VeeT	Transmitter Ground	
2	LV-TTL-O	TX_Fault	N/A	1
3	LV-TTL-I	TX_DIS	Transmitter Disable	2
4	LV-TTL-I/O	SDA	Two Wire Serial Data	
5	LV-TTL-I	SCL	Two Wire Serial Clock	
6		MOD_DEF0	Module present, connect to VeeT.	
7	LV-TTL-I	RS0	N/A	1
8	LV-TTL-O	LOS	LOS of Signal.	2
9	LV-TTL-I	RS1		1
10		VeeR	Receiver Ground	
11		VeeR	Receiver Ground	
12	CML-O	RD-	Receiver Data Inverted	
13	CML-O	RD+	Receiver Data NON-Inverted	
14		VeeR	Receiver Ground	
15		VccR	Receiver Supply 3.3V	
16		VccT	Transmitter Supply 3.3V	
17		VeeT	Transmitter Ground	

DA-SFP-Plus-Xm, Соединители, SFP+ Direct Attach

18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML_I	TD-	Receiver Data Inverted	
20		VeeT	Transmitter Ground	

Notes:

1. Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor.
2. Passive cable assemblies do not support LOS and TX_DIS

Mechanical Specifications

