

SNR-SFP+DA-XX 10Gbps

SFP+ 10G Direct-attach Transceiver

SFP+ Direct Attach: 1m, 2m, 3m

RoHS6 Compliant

Features

- ◆ Support Multi-Gigabit data rates up to 10.5Gbps
- ◆ Hot-pluggable SFP 20PIN footprint
- ◆ I/O Connector designed for high speed differential signal application
- ◆ Improved Pluggable FormFactor(IPF) compliant for enhanced EMI/EMC performance
- ◆ Lower Power Consumption < 0.5W
- ◆ Compatible to SFP+ MSA
- ◆ Temperature Range: 0~ 70°C
- ◆ RoHS6 Compatible



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Applications

- ◆ Ethernet
- ◆ 8xFC 10xFC
- ◆ Networking
- ◆ Data center cabling infrastructure
- ◆ Hubs, switches, routers, servers, NICs

Order Information

Part No.	Data Rate	Media type	Distance
SNR-SFP+DA-1	Up to 10.5G	Cable	Up to 1m
SNR-SFP+DA-2	Up to 10.5G	Cable	Up to 2m
SNR-SFP+DA-3	Up to 10.5G	Cable	Up to 3m

Note1: Standard version

Regulatory Compliance

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Feature	Standard	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883G Method 3015.7	Class 1C (>1000 V)
Electrostatic Discharge to the enclosure	EN 55024:1998+A1+A2 IEC-61000-4-2 GR-1089-CORE	Compatible with standards
Electromagnetic Interference (EMI)	FCC Part 15 Class B EN55022:2006 CISPR 22B :2006 VCCI Class B	Compatible with standards Noise frequency range: 30MHz to 6GHz. Good system EMI design practice required to achieve Class B margins. System margins are dependent on customer host board and chassis design.
Immunity	EN 55024:1998+A1+A2 IEC 61000-4-3	Compatible with standards. 1KHz sine-wave, 80% AM, from 80MHz to 1GHz. No effect on transmitter/receiver performance is detectable between these limits.
Component Recognition	UL and CUL EN60950-1:2006	UL file E317337 TbV Certificate No. 50135086 (CB scheme)
RoHS6	2002/95/EC 4.1&4.2 2005/747/EC 5&7&13	Compliant with standards ^{*note3}

Note2: For update of the equipments and strict control of raw materials, SNR has the ability to supply the customized products since Jan 1th, 2007, which meet the requirements of RoHS6 (Restrictions on use of certain Hazardous Substances) of European Union.

In light of item 5 in RoHS exemption list of RoHS Directive 2002/95/EC, Item 5: Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.

In light of item 13 in RoHS exemption list of RoHS Directive 2005/747/EC, Item13: Lead and cadmium in optical and filter glass. The three exemptions are being concerned for SNR's transceivers, because SNR's transceivers use glass, which may contain Pb, for components such as lenses, windows, isolators, and other electronic components.

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Product Description

SNR-SFP+DA-XX Copper SFP+ Cables Assemblies modules are based on the SFP+ Multi Source Agreement (MSA). It is compliant with the Ethernet and Fiber Channel standards.

Absolute Maximum Ratings

Parameter	Symbol	Min	Typ	Max	Units
Maximum Supply Voltage	Vcc	-0.5		4.0	V
Storage Temperature	T _s	-40		85	°C

Normal operating condition

Parameter	Symbol	Min	Typ	Max	Units	Ref.
Operating Case Temperature	Top	0		70	°C	
Supply Voltage	Vcc	3.14	3.3	3.46	V	
Power Consumption	P	0.5			W	

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	
18	CML-I	TD+	Transmitter Data Non-Inverted	

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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

Notice:

SNR reserves the right to make changes to or discontinue any optical link product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only. SNR makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

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GUARANTEE:



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