

DAPSSxxx10x0 – SFP+ Passive Direct Attached Cable 50cm to 7m / 8G/10x G packet SAN & Gigabit Ethernet ETHERNET

For your product safety, please read the following information carefully before any manipulation of the cabletransceiver:



ESD

This cabletransceiver is specified as ESD threshold 1kV for SFI pins and 2kV for all others electrical input pins, tested per MIL-STD-883G, Method 3015.4 / JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module.



1. Overview

DAPSSxxx10x0 is a high performance SFP+ passive direct attached cable for full duplex 10Gbps data links. The device supports communication over up to 7m copper cable.

This Passive Direct Attached Cable is compliant with the Small Form-factor Pluggable (SFP) Multisource Agreement (MSA) and hot pluggable. Always contact Skylane Optics commercial agents for compatibility with different equipment platforms.

2. Features

- SFP+ Multi-Source Agreement compliant (SFF-8431 and SFF-8432)
- Serial ID functionality supported according to SFF-8472
- Lengths up to 7m
- Robust Die Cast Housing
- 30 AWG Cable (≤3m) / 24 AWG Cable (>3m)
- Operating Case Temperature Range 0°C to 70°C



Figure 1. Cable
(non-binding illustration)

3. Applications

•3. Gigabit Ethernet

- 10x Gigabit Ethernet
- 10x Fiber Channel
- 2x Fiber Channel
- 4x Fiber Channel
- 8x Fiber Channel

4. Technical parameters

Table with 6 columns: Parameter, Min, Typ, Max, Unit, Notes. Rows include Storage temperature, Operating Case Temperature, Relative Humidity, Power Supply Voltage, and Power Supply Current.

Table with 6 columns: Parameter, Min, Typ, Max, Unit, Notes. Row includes Data Rate.

Table with 6 columns: Parameter, Min, Typ, Max, Unit, Notes. Rows include TD+, TD- Differential Input Voltage Swing, RD+, RD- Differential Output Voltage Swing, Tx Input Impedance, and Rx Output Impedance.

5. Transceiver Electrical Pad Layout

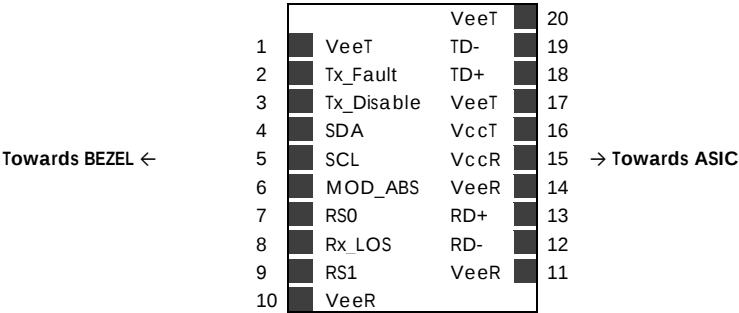


Figure 2. Transceiver Electrical Pad Layout

6. Pin Functions Definitions

Pin Number	Name	Function
1	VeeT	Transmitter Ground
2	TX_Fault	Transmitter Fault Indication
3	TX_Disable	Transmitter Disable
4	SDA	2-Wire Serial Interface Data (SDA)
5	SCL	2-Wire Serial Interface Clock (SCL)
6	MOD_ABS	Function Not available
7	RS0	Rate Select 0 grounded
8	Rx_LOS	Loss of signal
9	RS1	Rate select 1 grounded
10	VeeR	Receiver Ground
11	VeeR	Receiver Ground
12	RD-	Inverted received data output
13	RD+	Received data output
14	VeeR	Receiver Ground
15	VccR	Receiver Power
16	VccT	Transmitter Power
17	VeeT	Transmitter Ground
18	TD+	Transmit data input
19	TD-	Inverted transmit data input
20	VeeT	Transmitter Ground

7. EEPROM

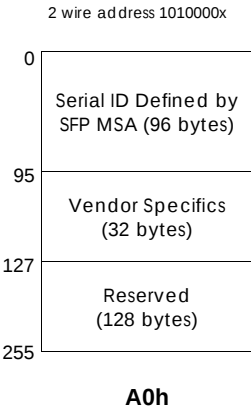


Figure 3. EEPROM of a SFP +

Datasheet

DAPSSxxx10x0_RevB



8. Ordering information

Part Number	Description
DAPSSC501000	SFP+ to SFP+ Passive Attached Cable, Length: – Length: 50cm, 0 to 70°C
DAPSSM011000	SFP+ to SFP+ Passive Attached Cable – Length: 1m, 0 to 70°C.....
DAPSSM021000	SFP+ to SFP+ Passive Attached Cable – Length: 2m, 0 to 70°C
DAPSSM031000	SFP+ to SFP+ Passive Attached Cable – Length: 3m, 0 to 70°C
DAPSSM051000	SFP+ to SFP+ Passive Attached Cable – Length: 5m, 0 to 70°C
DAPSSM071000	SFP+ to SFP+ Passive Attached Cable – Length: 7m, 0 to 70°C
DAPSSC5010G0	SFP+ to SFP+ Passive Attached Cable, Length: – Length: 50cm, 0 to 70°C , Specific firmware
DAPSSM0110G0	SFP+ to SFP+ Passive Attached Cable – Length: 1m, 0 to 70°C , Specific firmware
DAPSSM0210G0	SFP+ to SFP+ Passive Attached Cable – Length: 2m, 0 to 70°C , Specific firmware
DAPSSM0310G0	SFP+ to SFP+ Passive Attached Cable – Length: 3m, 0 to 70°C , Specific firmware
DAPSSM0510G0	SFP+ to SFP+ Passive Attached Cable – Length: 5m, 0 to 70°C , Specific firmware
DAPSSM0710G0	SFP+ to SFP+ Passive Attached Cable – Length: 7m, 0 to 70°C , Specific firmware

9. Ordering information

Revision	Description
A	Initial release
B	Ordering information tab updated with the "G" versions.....

Skylane Optics® supplies a broad range of optical transceivers. Our engineers work closely with our customers to find the best solutions for every application. We are committed to provide high quality products and services to our customers.

For questions on this product please contact:
support@skylaneoptics.com

Beyond
Quality

Reliable
Alliance

Performing
Smartly