DAPSSM01100G000

HP® J9281B Compatible 10GBase-CU SFP+ Direct Attach Cable (Passive Twinax, 1m)

Product Description

This is an HP® J9281B compatible 10GBase-CU SFP+ to SFP+ direct attach cable that operates over passive copper with a maximum reach of 1.0m (3.3ft). It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. Our direct attach cables are built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Skylane's transceivers are RoHS compliant and lead-free.

Features:

- Operates from 1 to 10.5Gbps
- 360 degree cable braid crimp and enhanced EMI skirt
- Hot Pluggable
- Single 3.3V power supply
- Operating Temperature: 0 to 70 Celsius
- Low insertion loss and low crosstalk
- Compliant with SFP MSA: SFF-8431 Rev4.1
- Compliant with SFF-8472 Rev11.1
- RoHS Compliant and Lead-Free
- Wire Cable Type Twinax

Applications:

- InfiniBand 1X SDR DDR QDR
- Proprietary Interconnects

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

ESD

This transceiver 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.

LASER SAFETY

This is a Class1 Laser Product according to IEC 60825-1:2007. This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

The optical ports of the module need to be terminated with an optical connector or with a dust plug in order to avoid contamination.

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply Voltage	Vcc	3.13	3.30	3.47	V
Power Supply Current	Icc			30	mA
Case Operating Temperature	Tc	0		70	°C
Storage Temperature	Tstg	-40		85	
Data Rate Per Lane				10.5	Gbps
Bit Error Rate	BER			10^{-12}	

Cable Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Cable Diameter (30AWG)	DIA		4.5		mm
Time Delay Skew (Within Pair)	Tds			10	ps/m
Cable Time Delay	Td		4.3		ns/m
Cable Impedance	Z	90	100	110	Ω

Systems

Parameter	Media
10Gbps Line Speed, Full Duplex Bit Error Rate: Better Than $10E^{-12}$	Hot-pluggable, industry-standard Small Form-Factor Pluggable (SFP+) copper cable, available at 7m

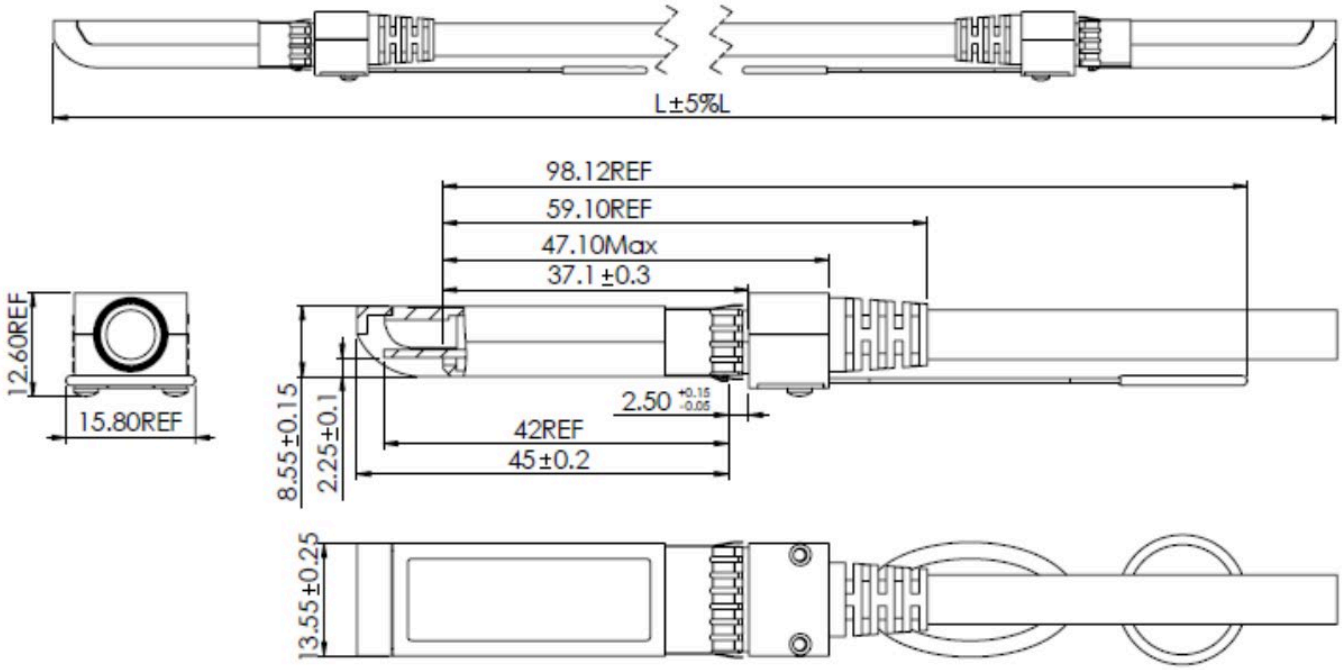
Pin Descriptions

Pin	Logic	Symbol	Name/Description	Notes
1		VeeT	Transmitter Ground.	
2	LVTTL-O	Tx_Fault	N/A.	1
3	LVTTL-I	Tx_Disable	Transmitter Disable.	2
4	LVTTL-I/O	SDA	2-Wire Serial Data.	
5	LVTTL-I	SCL	2-Wire Serial Clock.	
6		MOD_DEF0	Module Present. Connected to the VeeT.	
7	LVTTL-I	RS0	N/A.	1
8	LVTTL-O	LOS	Loss of Signal.	2
9	LVTTL-I	RS1	N/A.	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	+3.3V Receiver Power Supply.	
16		VccT	+3.3V Transmitter Power Supply.	
17		VeeT	Transmitter Ground.	
18	CML-I	TD+	Transmitter Data Non-Inverted.	
19	CML-I	TD-	Transmitter Data Inverted.	
20		VeeT	Transmitter Ground.	

Notes:

1. Signals not supported in SFP+ copper pulled down to the VeeT with 30kΩ resistor.
2. Passive cable assemblies do not support LOS and Tx_Disable.

Mechanical Specifications



About Skylane Optics

Skylane is a leading provider of transceivers for optical communication.

We offer an extensive portfolio for the enterprise, access, datacenter and metropolitan fiber optical market as well as for smart home applications and home networks.

We cover the European, South American and North American market with a strong partner network and have offices in Belgium, Brazil, Sweden and USA.

Our offerings are characterized by high quality and performance. In combination with our strong technical support, we enable our customers to build cost optimized network solutions.

We offer an extensive range of high-quality products including transceivers (Optical and copper), Active Optical Cable (AOC), Direct Attach Cable (DAC), Mux/Demux, Coding Box.