

S10-SP

10Gb/s SFP+ Direct Attach Passive Cable

Description:

The **SFP+ passive cable** assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fibre Channel applications. SFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cost and reduced power budget. The high speed cable assemblies meet and exceed Gigabit Ethernet and Fibre Channel industry standard requirements for performance and reliability.



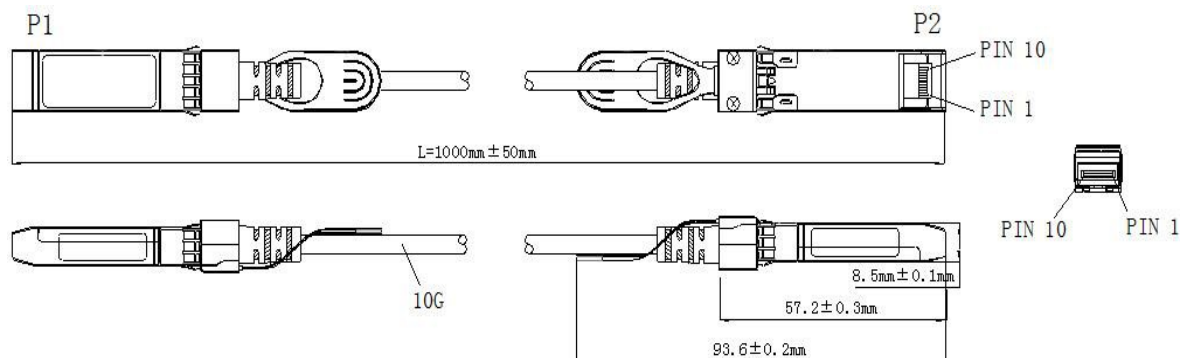
Features:

- Support for multi-gigabit data rates up to 10.5Gbps
- Data rates backward compatible to 1Gbps
- Hot-pluggable SFP 20 PIN footprint
- Copper link length up to 10 m
- I/O Connector designed for high speed differential signal applications
- Improved Pluggable Form Factor (IPF) compliant for enhanced EMI/EMC performance
- Compatible to SFP+ MSA
- Temperature Range: 0~70°C
- RoHS compliant

Applications:

- ✧ High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers
- ✧ Switched fabric I/O such as ultra high bandwidth switches and routers
- ✧ Data center cabling infrastructure
- ✧ High density connections between networking equipment

Mechanical dimensions schema:



Recommended operating environment:

Parametr	Min.	Max.
Storage Ambient Temperature	- 40 °C	+ 85 °C
Operating Case Temperature	0 °C	+ 70 °C

PIN function definitions:

PIN #	Name	Function	Notes
1	VeeT	Module transmitter ground	Note 1
2	Tx Fault	Module transmitter fault	Note 2
3	Tx Disable	Transmitter Disable; Turns off transmitter laser output	Note 3
4	SDL	2 wire serial interface data input/output (SDA)	
5	SCL	2 wire serial interface clock input (SCL)	
6	MOD-ABS	Module Absent, connect to VeeR or VeeT in the module	Note 2
7	RS0	Rate select0, optionally control SFP+ receiver. When high, input data rate >4.5Gb/s; when low, input data rate <=4.5Gb/s	
8	LOS	Receiver Loss of Signal Indication	Note 4
9	RS1	Rate select1, optionally control SFP+ transmitter. When high, input data rate >4.5Gb/s; when low, input data rate <=4.5Gb/s	
10	VeeR	Module receiver ground	Note 1
11	VeeR	Module receiver ground	Note 1
12	RD-	Receiver inverted data out put	
13	RD+	Receiver non-inverted data out put	
14	VeeR	Module receiver ground	Note 1
15	VccR	Module receiver 3.3V supply	
16	VccT	Module transmitter 3.3V supply	
17	VeeT	Module transmitter ground	Note 1
18	TD+	Transmitter inverted data out put	
19	TD-	Transmitter non-inverted data out put	
20	VeeT	Module transmitter ground	Note 1

Notes:

- 1) The module ground PINs shall be isolated from the case
- 2) This PIN is an open collector/drain output PIN and shall be pulled up with 4.7K-10Kohms to Host_Vcc on the host board
- 3) This PIN shall be pulled up with 4.7K-10Kohms to VccT in the module
- 4) This PIN is an open collector/drain output PIN and shall be pulled up with 4.7K-10Kohms to Host_Vcc on the host board

Ordering code:

S10 – SP – dd – XX

Examples of distance code:

dd code [-]	Distance [m]
100	1
200	2
300	3
400	4
500	5
600	6
700	7
1000	10

Examples of ordering code:

Code	Description
S10-SP-100-XX	SFP+ passive cable, 1 m
S10-SP-200-XX	SFP+ passive cable, 2 m
S10-SP-300-XX	SFP+ passive cable, 3 m
S10-SP-400-XX	SFP+ passive cable, 4 m
S10-SP-500-XX	SFP+ passive cable, 5 m
S10-SP-600-XX	SFP+ passive cable, 6 m
S10-SP-700-XX	SFP+ passive cable, 7 m
S10-SP-1000-XX	SFP+ passive cable, 10 m