

**GP-H1P-XXC****SFP+ Passive Cable Assembly , 2m、3m、5m Reach****Features**

- ◆ Support for multi-gigabit data rates up to 10.5Gbps
- ◆ Data rates backward compatible to 1Gbps
- ◆ Support for 1x, 2x, 4x and 8x Fiber Channel data rates
- ◆ Hot-pluggable SFP 20PIN footprint
- ◆ I/O Connector designed for high speed differential signal applications
- ◆ Improved Pluggable Form Factor(IPF) compliant for enhanced EMI/EMC performance
- ◆ Low Power Consumption < 0.5W
- ◆ Power Supply :+3.3V
- ◆ Compatible to:
  - SFF 8431
  - SFF 8472
- ◆ Temperature Range: 0~ 70 °c
- ◆ RoHS Compatible

**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

**Product Description**

The SFP+ cable assembly's printed circuit paddle card has been designed to not only address the stringent mechanical interface requirements but also the higher-bandwidth signal integrity requirements for 10Gb/s per channel transmission. The cable assembly also includes robust diecast covers and an EMI girdle to assure proper EMI shielding effectiveness and termination. Cable assembly removal is enabled via a user friendly pull tab.



The passive cable assembly design has no signal amplification in the cable assembly. Electronic Dispersion Compensation (EDC) is typically used on host board designs when passive SFP+ copper assemblies are utilized. EDC allows for an extended length of passive cable assemblies.

### SFP module standards

- ◆ Compatible SFP+MSA, SFP-8472, SFP-8431, SFP-8432, IEA 364-09, IEA 364-17B, IEA364-26, IEA 364-27B, IEA 364-31, IEA 364-32D.
- ◆ SFP module included ring for installing and removing supports

### Singal cable standards

- ◆ Number of pair signal cable  $\geq 2$
- ◆ Sectional area copper core  $\geq 30$ AWG
- ◆ Impedance: 100 Ohm
- ◆ Fire resistance of fiber: Applicable with IEC 60332-3 standard

### Fiber cable structure

- ◆ Fire resistance sheath, cover section by copper braid mesh, metal paper coated section, nylon cover section, fiber non-metallic paper coated section, pair signal cable.
- ◆ Pair of signal cable pulled with its reinforced metal rod and wrapped in two layers: noise resistance metallic layer, nylon wrapped layer.

### Compatibility

- ◆ with BTS sub. equipment of Huawei, Ericsson, Nokia vendors



### Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Tc	0		+70	°C
Power Supply Voltage	V <sub>CC3</sub>	3.14	3.3	3.47	V
Power Dissipation	PD			0.5	W

### Systems

<b>Performance</b>	10.5 Gpbs line speed, full duplex Bit error rate: $\leq 10E-12$
<b>Media</b>	Hot-pluggable, industry-standard Small Form-Factor Pluggable(SFP+) copper cable, available as 2m,3m or 5m.
<b>Operating parameters</b>	Supply voltage: 3.3V Power consumption(per end): max 0.5W

### Supported Length

2m, 3m, or 5m typical & customer specific requirements

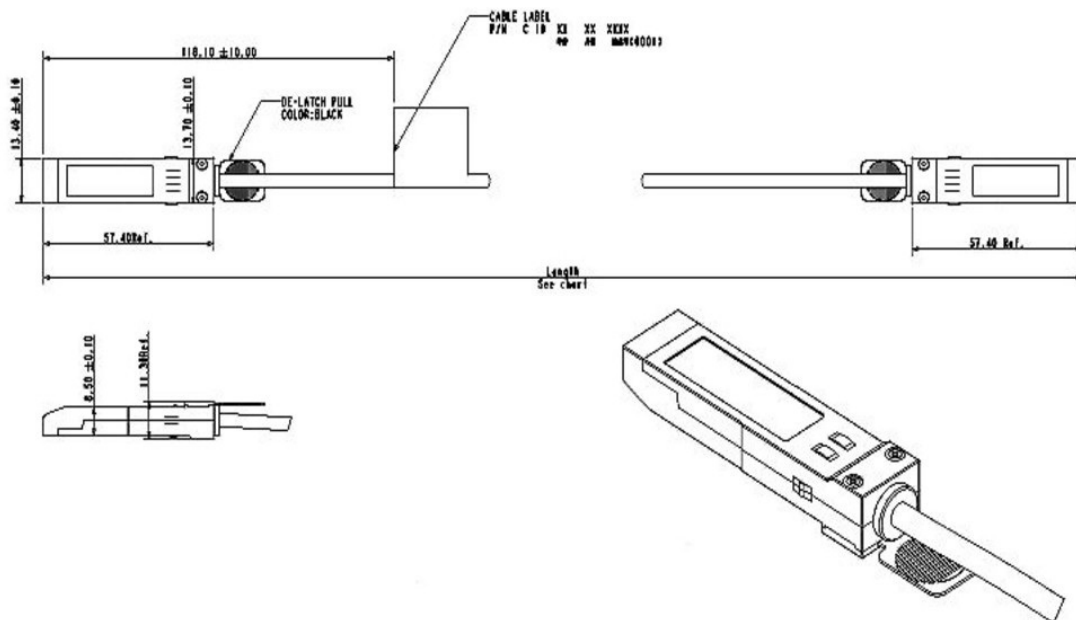
### Pin Descriptions

Pin	Logic	Symbol	Name/Description	Notes
1		VeeT	Transmitter Ground	
2	LV-TTL-O	TX_Fault	N/A	1
3	LV-TTL-I	TX_DIS	N/A	1
4	LV-TTL-I/O	SDA	Tow Wire Serial Data	
5	LV-TTL-I	SCL	Tow Wire Serial Clock	
6		MOD_DEF0	Module present, connect to VeeT	
7	LV-TTL-I	RS0	N/A	1
8	LV-TTL-O	LOS	N/A	1
9	LV-TTL-I	RS1	N/A	1
10		VeeR	Reciever Ground	
11		VeeR	Reciever Ground	
12	CML-O	RD-	Reciever Data Inverted	
13	CML-O	RD+	Reciever Data Non-Inverted	

14		VeeR	Reciever Ground
15		VccR	Reciever Supply 3.3V
16		VccT	Transmitter Supply 3.3V
17		VeeT	Transmitter Ground
18	CML-I	TD+	Transmitter Data Non-Inverted
19	CML_I	TD-	Transmitter Data Inverted
20		VeeT	Transmitter Ground

1. Passive cable assemblies do not support LOS、TX\_DIS、TX\_Fault,pull down to Ground

### Mechanical Dimensions



### Ordering information

Part Number	Product Description
GP-H1P-XXC	SFP+ Direct Attach (10GSFP+Cu), 2m, 3m, 5m, 0°C ~ +70°C

### Label and mark:

Fiber Cable: Producer, cable type & specs

SFP module: Producer, model and type