



**LI-0099-xxxD-U**

**LinkIT SFP+ 10Gbps DAC xm Ubiquiti, Passiv, AWG 30, SFF-8402, SFF-8432**

## **PRODUCT FEATURES**

- Up to 10.3125 Gbps data rate
- Up to 7 meter transmission
- Hot-pluggable SFP 20PIN footprint
- Improved Pluggable Form Factor(IPF)  
compliant for enhanced EMI/EMC performance
- Compatible to SFF-8402 and SFF-8432
- Temperature Range: 0~ 70°C
- RoHS Compatible
- Equal to UC-DAC-SFP+

## **Benefits**

- Cost-effective copper solution
- Lowest total system power solution
- Lowest total system EMI solution
- Optimized design for Signal Integrity

## **APPLICATIONS**

- 10G Ethernet

## Product Description

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet. SFP+ copper cables allow hardware manufactures to achieve high port density, configurability and utilization at a very low cost and reduced power budget.

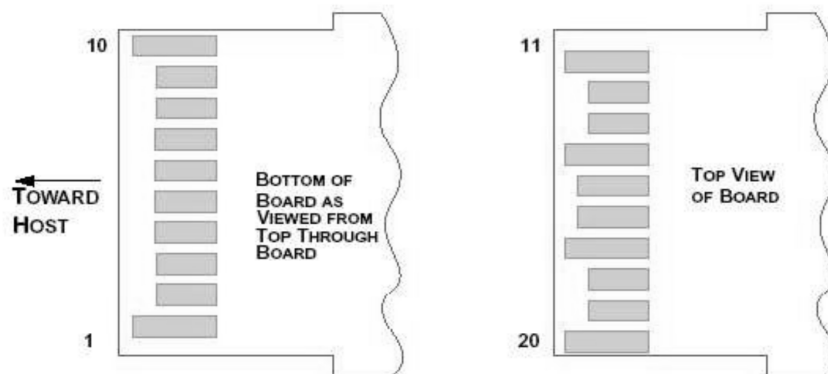
## I. High Speed Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Note
Differential Impedance	TDR	90	100	110	$\Omega$	
Insertion loss	SDD21	-17.04			dB	At 5.15625 GHz
Differential Return Loss	SDD11			See 1	dB	At 0.05 to 4.1 GHz
	SDD22			See 2	dB	At 4.1 to 11.1 GHz
Differential to common-mode return loss	SCD11			-10	dB	At 0.2 to 11.1 GHz
	SCD22					
Common-mode to common-mode output return loss	SCC11	-3			dB	At 0.01 to 11.1 GHz
	SCC22					

Notes:

1. Reflection Coefficient given by equation  $SDD11(\text{dB}) < -12 + 2 \times \text{SQRT}(f)$ , with f in GHz
2. Reflection Coefficient given by equation  $SDD11(\text{dB}) < -6.3 + 13 \times \log_{10}(f/5.5)$ , with f in GHz

## II. Pin Diagram



## III. 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	Transmitter Disable	2
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	

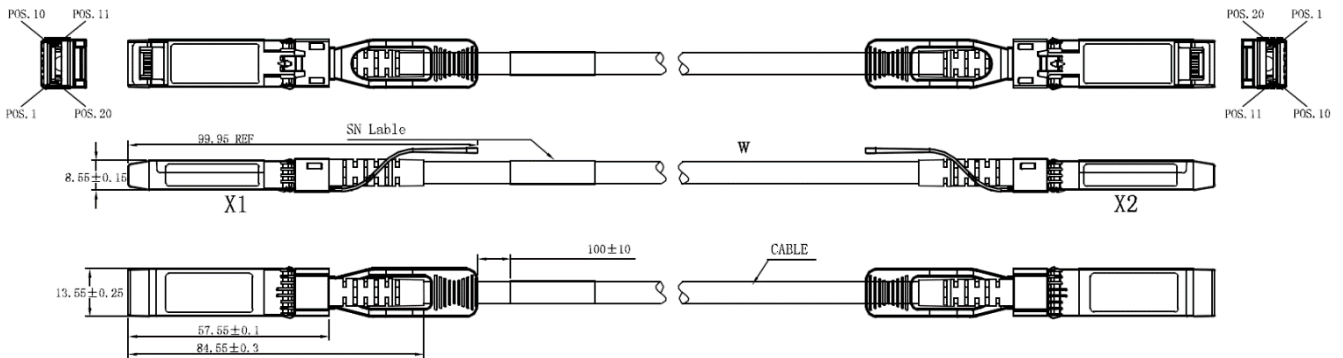
7	LV-TTL-I	RS0	N/A	1
8	LV-TTL-O	LOS	LOS of Signal	2
9	LV-TTL-I	RS1	N/A	1
10		VeeR	Reciever Ground	
11		VeeR	Reciever Ground	
12	CML-O	RD-	Reciever Data Inverted	
13	CML-O	RD+	Reciever Data Non-Inverted	
14		VeeR	Reciever Ground	
15		VccR	Reciever Supply 3.3V	
16		VccT	Transmitter Supply 3.3V	
17		VeeT	Transmitter Ground	
18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML_I	TD-	Transmitter Data Inverted	
20		VeeT	Transmitter Ground	

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.

## IV. Mechanical Specifications

The connector is compatible with the SFF-8432 specification.



## Revision History

Version No.	Date	Description
1.0	June 24, 2021	Preliminary datasheet

Imported and distributed by CBK Group AS

Gneisveien 30

2020 Skedsmokorset



**Norway.**