

800G-CR8 (OSFP RHS) Active Copper Cable

P/N: FZU-800-XXM02C

Features

- ✓ Hot-plug OSFP RHS form factor
- ✓ Support 8x 100Gb/s PAM4 and NRZ
- ✓ Support up to 5m length
- ✓ 100Ohm differential impedance system
- ✓ 3.3V power supply & typical power consumption 2.5W
- ✓ Commercial case temperature range of 0°C to 70°C
- ✓ I2C management

Applications

- ✓ Infiniband NDR/HDR/EDR
- ✓ Switch / router / HBA
- ✓ Enterprise network
- ✓ Data Center Network
- ✓ Data storage and communication industry



STANDARDS COMPLIANCE

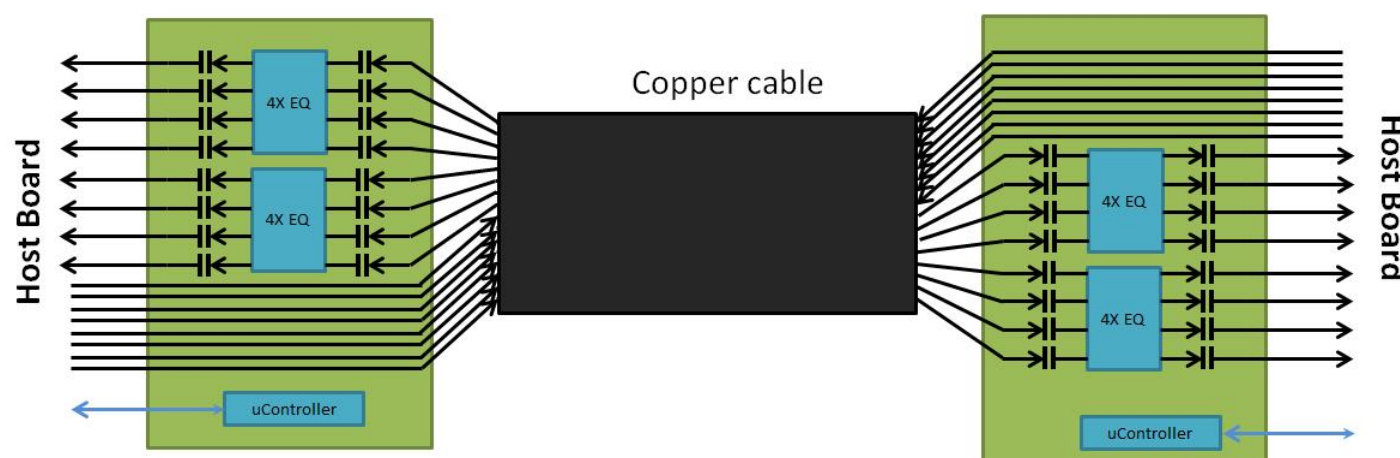
- ✓ IEEE P802.3ck D3.0
- ✓ OSFP MSA R4.1
- ✓ CMIS 4.0
- ✓ ROHS

Description

FIBERSTAMP's OSFP RHS ACC(Active Copper Cable) assembly series product provide superior signal integrity performance and reliability, comparing to PCC and AOC, ACC is a re-drive solution which built-in linear equalizer to compensate transmission loss, it is an effective solution with low power, low latency, low cost to help high-speed data centers even AI high-computational applications.

FIBERSTAMP' s FZU-800-XXM02C cable connects data signals from each of the 16 pairs on the single OSFP RHS end to the other OSFP RHS end, each pair operates at data rates of up to 100Gb/s and can be adaptive downward compatibility. The product operates 3.3V power supply and comply with OSFP MSA and IEEE802.3ck ,it' s high performance & cost effective I/O solutions for LAN, HPC and SAN. The high speed cable assemblies meet 400Gigabit Ethernet, Infiniband requirements for performance and reliability.

Block Diagram



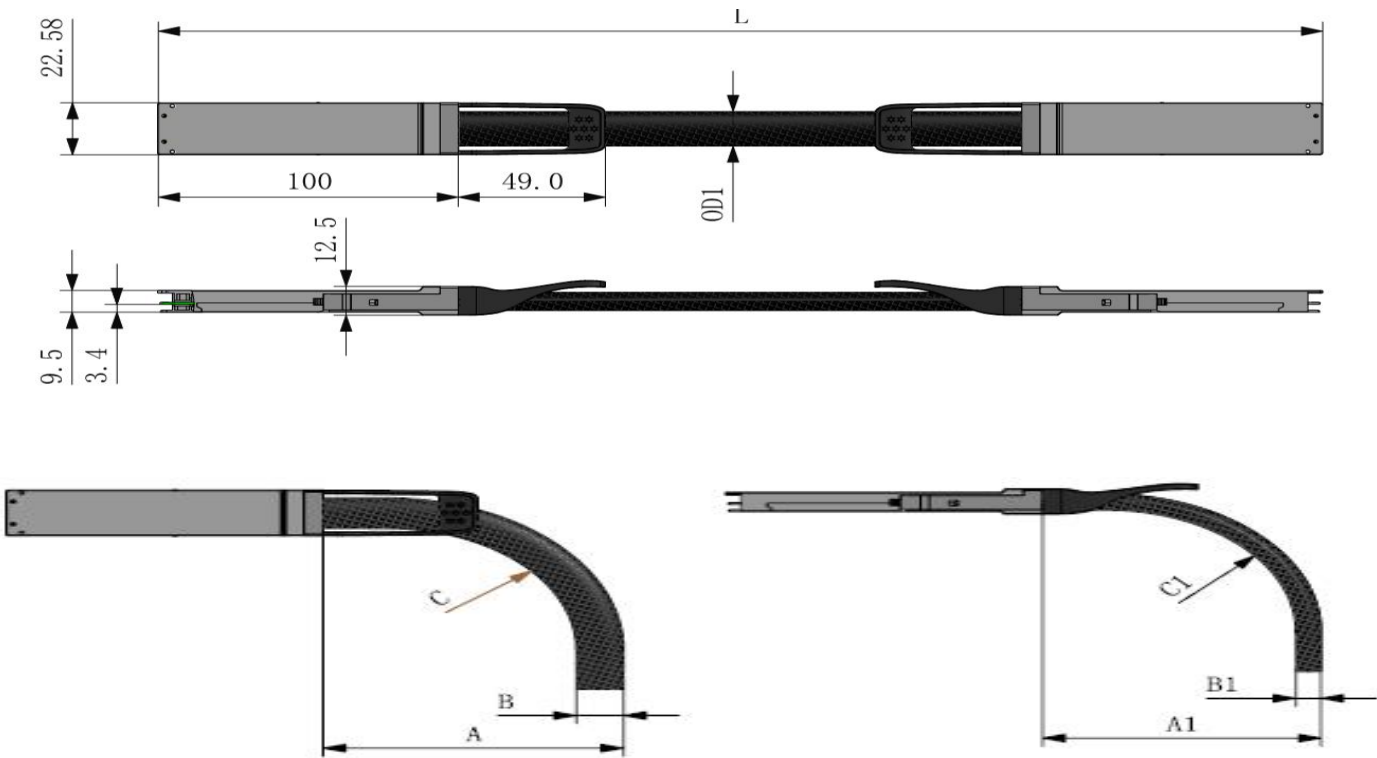
Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Storage Temperature	T _s	-20	85	°C
Humidity(non-condensing)	Rh	0	70	°C
Supply Voltage	V _{cc}	-0.3	3.6	%

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case Temperature	T _c	0		70	°C
Supply Voltage	V _{cc}	3.13	3.3	3.47	V
Power Consumption	PD		1.3		W
Data Rate per Lane (PAM4)	Fd1		53.125		GBaud/s
Data Rate per Lane (NRZ)	Fd2	10.3125	53.125		Gbps
Humidity	Rh	5		85	%

Mechanical Dimensions

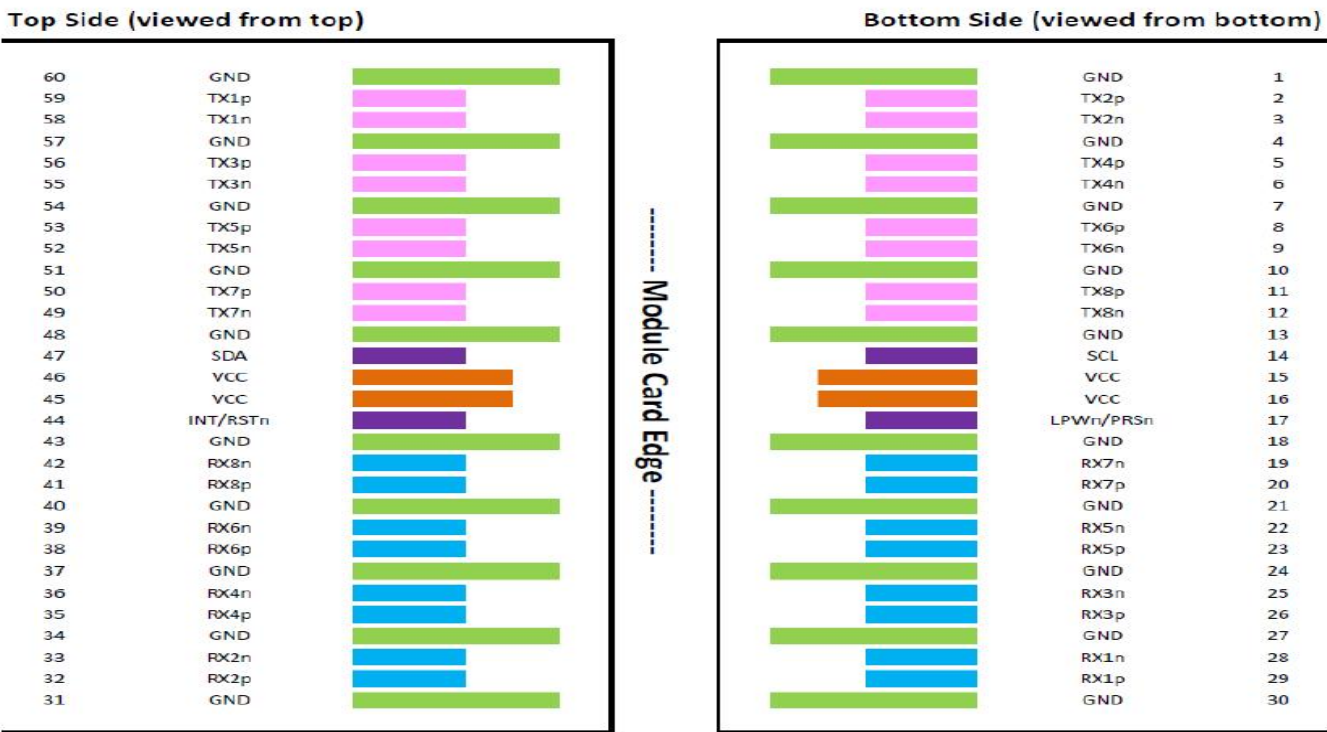


OSFP RHS Horizontal Direction			
CABLE GUAGE	DIAMETER" B "	MIN BEND RADIUS" C "	MIN BEND RADIUS" A "
26AWG	11MM	55MM	65MM

OSFP RHS Vertical Direction			
CABLE GUAGE	DIAMETER" B1 "	MIN BEND RADIUS" C1 "	MIN BEND RADIUS" A1 "
26AWG	8MM	40MM	50MM



Electrical pinout



Ordering information

Part Number	FZU-800-XXM02C
Length (meter)	2~5
Wire gauge (AWG)	30/26AWG

If length(meter) is decimal, PN should be as FZU-800-XXM02C,the wire gauge also can be customized.

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by FIBERSTAMP before they become applicable to any particular order or contract. In accordance with the FIBERSTAMP policy of continuous improvement specifications may change without notice.

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Revision History

Revision	Date	Description
Preliminary	May-13-2025	Advance Release.

