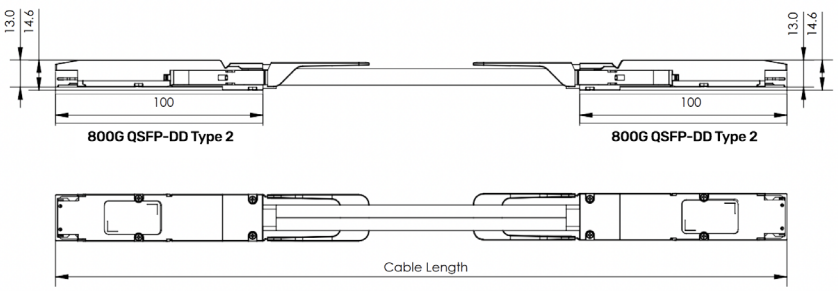
CLOS AEC SPECIFICATION

PLUG & PLAY ACTIVE ELECTRICAL CABLE for In-Rack Ethernet Applications in Distributed, Disaggregated Chassis

800GQSFP-DDPAM4to800GQSFP-DDPAM4

Credo's HiWire™ CLOS Active Electrical Cable (CLOS AEC)
A thin, low power 800G AEC specifically designed for in-rack applications replacing back planes in Distributed, Disaggregated Chassis (DDC) implementations. Plug & Play CLOS AECs consume up to 50% less power than optical and take up to 75% less volume than DACs, enabling interconnect densities of up to 1,000 cables per rack.

Credo's CAC8XX321M1M-B0-HW HiWire CLOS AEC
Designed for telecom and data center use. It can sustain 8 lanes of 106G-PAM4 signal in each direction, providing bi-directional 800Gbps traffic per cable. The use and replacement of CAC8XX321M1M-B0-HW AEC is simple and straightforward as it adopts standard QSFP-DD type2 form factor and complies to MSA specifications.



Features

The following are the key features of the HiWire LP CLOS AEC:

- Recognizable, purple LSZH jacket
- 800G to 800G data rate
- CMIS 4.0 compliant
- Single 3.3V power supply
- Lowpower consumption
- Typ. 10W power dissipation each end
- BER < 10^{-15} (post FEC)
- Hot pluggable
- RoHS2 compliant
- I^2Cmanagement interface
- Operating case temperature range: 0° to +70°C

Supported Standards and Interfaces

- Common Management Interface Specification (CMIS) v4.0
- OSFP MSA v5.0

Key Features

Parameter	Value
Module Form Factor	QSFP-DDtype2
Number of Data Lanes	8TXand8RXpermodule(PAM4)
Maximum Aggregate Data Rate	800Gbps
Nominal Data Rate per Lane	106.25Gbps(PAM4)
Electrical Interface and Pin-out	76-pin edge connector
Pin Description	Per QSFP-DD Hardware Specification
Management Interface	I^2C, serial, timing per Common Management Interface Specification for 8X/16X Pluggable Transceivers v 4.0
Length of Copper AEC	0.5m - 2.5m in 0.5m increments
BER (Pre-FEC)*	Typ. $<10^{-8}$
BER (Post-FEC)*	$<10^{-15}$

* Tested with QPRBS31 pattern

Product Selections

Part Number	Length	AWG	Weight
CAC805321M1M-B0-HW	0.5m	32	140g
CAC81X321M1M-B0-HW	1.0m	32	175g
CAC815321M1M-B0-HW	1.5m	32	213g
CAC82X321M1M-B0-HW	2.0m	32	248g
CAC825321M1M-B0-HW	2.5m	32	288g

Mechanicals

Parameter	Cable Type	Typical	Length
Diameter	16P 32AWG	6.8mm	0.5-2.5m

For more information please visit **www.credosemi.com**
or email **sales@credosemi.com**

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