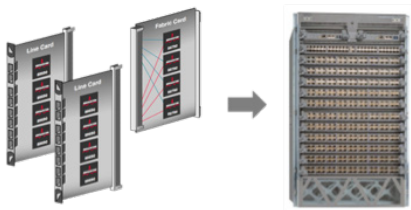


Distributed, Disaggregated Chassis (DDC) CLOS

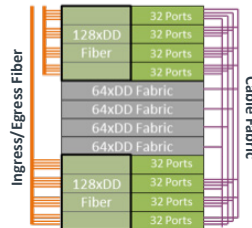
DDC : Modern Chassis Replacement

Chassis are large, expensive, proprietary solutions to high-bandwidth switching and routing applications. Modern, software-defined data centers that need greater flexibility are driving the migration to DDCs and decoupling network hardware and software in the process.

Traditional Chassis



Distributed, Disaggregated Chassis



Solving the DDC CLOS Challenge

A chassis uses a backplane to build a CLOS network. A DDC uses standards-based 400G cables to build a CLOS network – but legacy interconnect solutions don't deliver. Optics power is too high and DAC gauge is too large to route at these densities resulting in broken connectors and failed rollouts.

Say Hi to HiWire LP CLOS AECs

Credo's HiWire CLOS AEC are thin, low power, deterministic Active Electrical Cables (AECs) specifically designed for DDC CLOS applications:

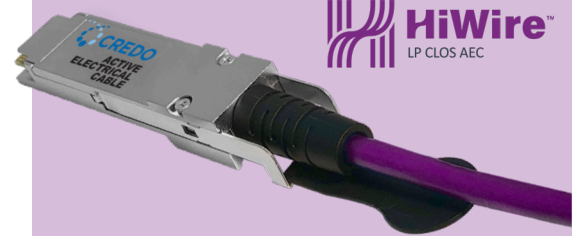
- Up to 75% less power consumption than optical solutions
- Up to 75% less space than DACs
- Deterministic $1e^{-8}$ pre-FEC BER performance
- 10-year service life

Using HiWire LP CLOS AECs in a DDC

- Routing densities of up to 1,000 cables per rack
- Improved reliability with MTBF >10 million hours
- Lower power consumption than chassis

www.credosemi.com/hiwire

HiWire LP CLOS AEC



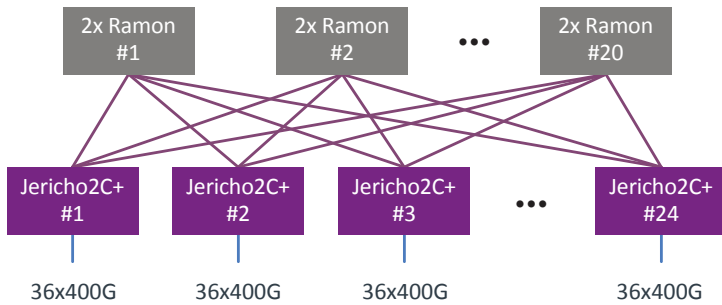
Credo HiWire LP CLOS Active Electrical Cables (AEC) are specifically designed for high density in-rack or HPC rack-to-rack interconnect to support CLOS architectures.

With 75% less power than optical solutions and 75% less volume than DACs, these AECs enable CLOS cabling densities up to 1,000 cables per rack.

Key Parameters

Lengths	0.5m – 3.0m	
	0.5m granularity	
Cu Gauge	32 AWG	
Modulation	PAM4	PAM4
Connectors	A-Side	B-Side
	QSFP56-DD	QSFP56-DD
Link Speeds	56G	
Power	4.5W per end	
BER	Pre-FEC BER $1e^{-8}$	
	Post-FEC BER < 10^{-15}	

345Tb Jericho2C+ / Ramon Cluster



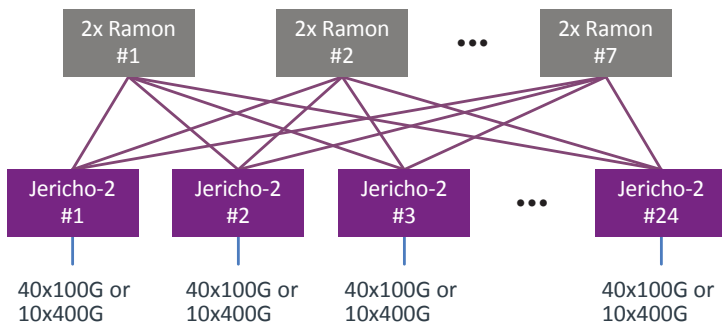
Item	Power	Qty	Total Power
Jericho2C+	900W	24	21.6kW
2U Ramon	550W	20	11kW
400G DR4	9W	864	7.8kW
Total			40.1kW

CLOS Options

Item	Power	Qty	Ext Power
AOC	2x9W	960	17.2kW
HiWire LP CLOS AEC	2x4.5W	960	8.6kW



96Tb Jericho2 / Ramon Cluster



Item	Power	Qty	Ext Power
Jericho2	450W	24	10.8kW
2U Ramon	550W	7	3.9kW
400G DR4	9W	240	2.2kW
Total			16.4kW

CLOS Options

Item	Power	Qty	Ext Power
AOC	2x11W	312	5.6kW
HiWire LP CLOS AEC	2x4.5W	312	1.7kW



For more information please visit www.credosemi.com/hiwire or email hiwire@credosemi.com.