

LOOPBACK AEC SPECIFICATION

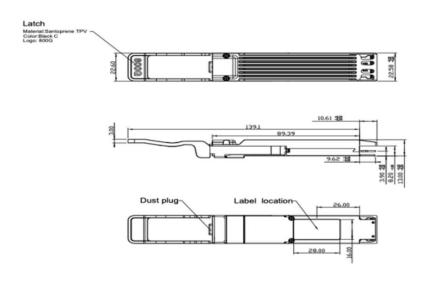
PLUG & PLAY LOOPBACK AEC

Active Loopback Test Functionality for 1.6T Based OSFP-XD Host

1.6T (16x106G) OSFP-XD PAM4

Credo's HiWire Loopback Active Electrical Cable (eLBM)

Credo's CACHX1T-CO-HW Loopback AEC is design to provide an active loopback test functionality for 1.6T (16x106G) based OSFP hosts. The module also includes the ability to control a power and thermal load of up to 28W, and well as provide several PRBS, FEC parato, eye height and other loopback functions.





Features

- 1.6T (16x106G) loop back configuration controllable on a lane by lane basis
- PRBS Generation and evaluation on a lane by lane basis
- Eye Height measurement with PRBS or mission mode traffic
- · CMIS 5.1 compliant
- · Single 3.3V power supply
- Up to 18W resistive thermal load that is software controlled via the CMIS port
- Typ. 14W power dissipation with 16 lanes of loopback enabled
- Thin fin design to allow 2.2-2.6 CFM airflow per port
- · Hot pluggable
- RoHS2 compliant
- I2C management interface
- Operating case temperature range: 0° to +70°C

Supported Standards and Interfaces

 Common Management Interface Specification (CMIS) v5.1

Key Features

Parameter	Value
Module Form Factor	OSFP-XD
Number of Data Lanes	16 TX and 16 RX per module (PAM4)
Maximum Aggregate Data Rate	1600Gbps
Nominal Data Rate per Lane	106.25Gbps (PAM4)
Electrical Interface and Pin-out	120-pin edge connector
Pin Description	Per OSFP-XD Hardware Specification
Management Interface	I ² C, serial, timing per Common Management Interface Specification for 8X/16X Pluggable Transceivers V5.1
Power supply (DC)	3.3V

Product Selections

Part Number	Configuration
CACHX1T-CO-HW	1.6T OSFP-XD Loopback AEC

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

