Dual SCFF 26pin Edge Card

50 Gbps High-Speed Optical Module Card

NEW

LOW-POWER, HIGH DENSITY, EFFICIENT DESIGN

The Amphenol AOP "Dual SCFF 26pin Edge Card" is an adapter card interface enabling two Amphenol Ruggedized SCFF modules mounted and soldered, boostering performance and versatility.

- Capable of speeds up to 25 Gbps at distances up to 70 m
- Aggregate 50 Gbps over 2 channels on an efficient footprint.
- T-range: -40°C to +85°C operational
- Data-rate: 1.25Gbps to 28.05Gbps
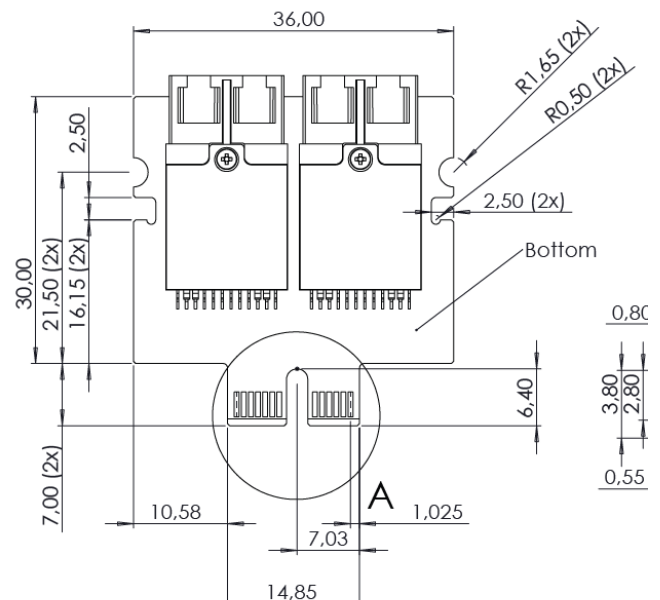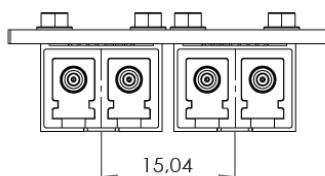- Interchangeable allowing dual sourcing.

FEATURES

- Robust adapter card having two Amphenol AOP SCFF Modules assembled

- Easy installation without any soldering

- All individual SCFF signals are available at the edge card pin contacts

- Edge card pins use hard gold finish

- Available with or without Conformal Coating

- Edge Card comes as a full functional tested part for easy installation

- Supports both versions of SCFF:
  - ➢ SCFF 10 Gbps
  - ➢ SCFF 25 Gbps

BENEFITS

- Supports Amphenol AOP 10GbE and 25GbE Ruggedized SCFF Transceiver

- RF lines are 100 Ohm differential impedance matched

- Amphenol AOP SCFF ruggedized Transceivers supports.
  - ➢ SFF-8472 compliant two wire serial interface (I2C),
  - ➢ Adjustable TX equalizer, RX de-emphasis and RX amplitude per module
  - ➢ Digital monitoring: Tx Power, temperature, voltage, RSSI etc.

DIMENSIONS

▶ Dual SCFF 26pin Edge Card

TECHNICAL INFORMATION

MATERIAL

- Optical interface mates with LC terminated Amphenol optical cables: contact us

ELECTRICAL PERFORMANCE PER MODULE

- Power Supply Voltage: 3.3V only
- Bit Error Rate
  - BER < 10^{-12} at 25.78125Gbps, PRBS31 (CDR ON)
  - BER < 10^{-12} at 10.3125Gbps, PRBS31
- Lanes per device: 1 Transmit and 1 Receive
- Low Power Consumption (<1W @25G)
- Transmitter Type: 850nm VCSEL Laser
- Receiver Type: PIN Photodiode

ENVIRONMENTAL

- RoHS compliant
- Case Operating Temperature up to [-40°C to +85°C]
- Conformal coating option
- Shock MIL-STD 883: Method 2002.4 (500g; 1ms)
- Vibe MIL-STD 883: Method 2007.3 (20g)

PACKAGING

- Individual Blister Package

SUPPORTED STANDARDS

- 25Gbps Ethernet*
- 1.25Gbps to 25Gbps* proprietary links
- 10GbE
- EDR Infiniband*
- 8G/16G/32G Fiber Channel*
- CPRI*

  for 25Gbps version only

TARGET MARKETS/APPLICATIONS

 Commercial aerospace

 Military aerospace

 Military vehicles

 Industrials

PRODUCT REFERENCE CODES

10172054 - 2		Y	Z
Assembly	1	with two 10GbE Ruggedized SCFF TRX-10-S000-LC-S1-A-X-0	
	2	with two 25GbE Ruggedized SCFF TRX-25-S000-LC-S1-A-X-0	
Conformal Coating	0	no conformal coating	
	1	use conformal coating	