

ACTIVE OPTICAL PRODUCTS



Military & Aerospace Products

Low Rider / Rough Rider Transceivers

Features

- Excellent thermal characteristics
- Exceptional EMI/RFI performance
- High tolerance to shock and vibration
- Low-profile, less than 9.8 mm high
- Industrial temperature rated (-40°C to 85°C)
- Surface mount pins
- Conformal coating available
- Optional pigtail optical fiber attachment for virtually any connector type such as MIL-T-29504, PHD, ST, etc.
- Singlemode and multimode versions



Protocols & Data Rates

- OC-3 / Fast Ethernet (155 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1X/2X/4X)
- Infiniband (2.5 GBaud)
- Custom data rates available
- Dual TX and Dual RX available

Quad Hybrid Transceiver

Features

- 2.5 Gbps per channel, 4 transmit and 4 receive channels
- Fiber flex pigtail with MT12 optical connector
- BGA socket for easy installation/removal
- Low height, less than 0.285 inch, socket mated with transceiver
- 1 inch square footprint



Rugged SFF

Features

- Ruggedized version of the MSA compliant 2x5 Small Form Factor transceiver
- Constructed to IPC Class 3 standards
- Guaranteed for operation over the industrial temp range (-40°C to +85°C ambient)
- Optional Parylene C conformal coating on the internal transceiver circuits
- Custom Designs for specific programs



Highly Miniaturized OEO Conversion

Features

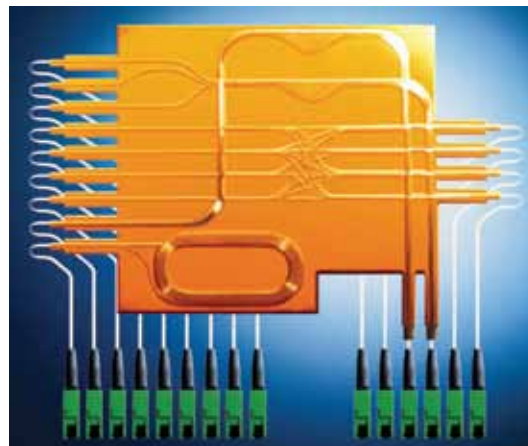
- Full optical / electrical physical layer solution
- Fully tested to customer specifications
- Industrial temperature ratings available
- Ethernet, Fiber Channel, or Customer data protocols
- Media conversion circuitry combined with OEO transceiver function for plug and play performance



Terminated Flex Circuit

Key Features & Benefits

- User definable routing and outline as well as user defined terminations (simplex, parallel)
- Durable and reliable construction for use in demanding environments
- Eliminates complex fiber routing on host card PCBA (all routing and management functions are embedded in the flex circuit)
- Supports designs of 3"x 3" to 48"x 48"
- Point to point or complex routing
- Supports a variety of fiber types (multi-mode and single mode fiber)
- 250µm buffered standard core size, 9µm, 50µm, or 62.5µm
- Specialty fiber: 100/140µm, Rad-Hard, plastic, polyimide coated, bend-insensitive



Media Converters

Rugged Media Converters

Features

- Integrated transceiver and media converter
- Available in Expanded Beam or TFOCA-II® compatible optical interfaces
- Industrial temperature and vibration
- Single or dual ports available
- Vehicle Power 9V-32V
- Power over Ethernet option

Protocols & Data Rates

- 10/100 Ethernet
- 10/100/1000 Ethernet
- T1 Telecom
- DS3 Telecom



Telecom Enterprise Products

SFP Transceivers

Features

- Hot-pluggable – add or remove modules during system operation
- 850nm, 1310nm, 1550nm, and CWDM wavelengths
- User-friendly bail actuators locks module securely in place
- Digital diagnostics monitoring interface available
- Dual TX or RX available

Protocols & Data Rates

- OC-3 / Fast Ethernet (155 MBaud)
- OC-12 (622 Mbaud)
- OC-48 (2.488 Gbaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1X/2X/4X)
- Video SD/HD/3-G-SPF



Accessories

- Cages available in three styles
- EMI dust caps and plugs
- SFP loopbacks test SFP port operation in hubs and other systems

1 x 9 Transceivers

Features

- Wave solderable / aqueous washable
- 850nm and 1310nm wavelengths

Protocols & Data Rates

- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)



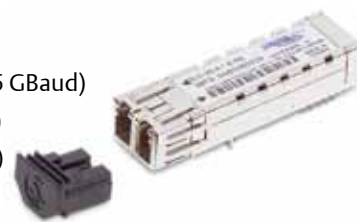
SFF Transceivers

Features

- Wave solderable / aqueous washable
- 850nm, 1310nm, and 1550nm wavelengths
- Dual transmitter and dual receiver option
- Custom data rates and wavelengths

Protocols & Data Rates

- OC-3 / Fast Ethernet (155 MBaud)
- OC-12 (622 MBaud)
- OC-48 (2.488 GBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1X/2X)
- Infiniband (2.5 GBaud)
- Video SD/HD



RJ Size Transceivers

Features

- Half the length of a standard MSA transceiver
- Complete transceiver module in RJ-45 package, plus a new compact version called the Stepped RJ
- 850nm and 1310nm wavelengths
- Wave solderable / aqueous washable
- Surface mount or through hole pins



Protocols & Data Rates

- Fast Ethernet (125 MBaud)
- OC-3 (155 Mbaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1X/2X/4X)
- Infiniband 2.5G