

# Product Overview

Military & Aerospace - Active Optical Products

Cinch Connectivity Solutions

## Low Rider / Rough Rider Transceivers

- 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)
- 10 GigE
- Infiniband (2.5 GBaud)
- Custom data rates available
- Dual TX and Dual RX available

## Quad Hybrid Transceiver

- 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

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

## Rugged Media Converters

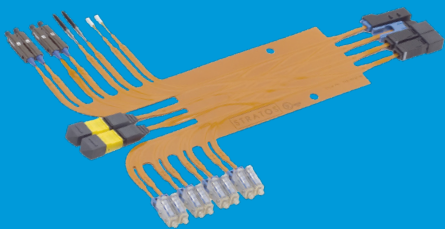
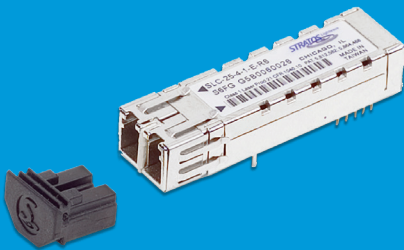
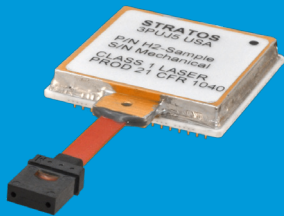
- Integrated transceiver and media converter
- Available in Expanded Beam or TFOCA-II® compatible optical interfaces
- Industrial temperature and vibration
- Single or dual ports available
- Vehicle Power 9V-32V
- Power over Ethernet option
- Singlemode and multimode versions

### Protocols & Data Rates

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

## Termination Flex Circuit

- 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 (multimode 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



# Product Overview

Military & Aerospace - Active Optical Products

Cinch Connectivity Solutions

## SFF/SFP Transceivers

- 850, 1310 nm
- MSA compliant footprint
- SFP with digital diagnostics monitoring interface available

- SFF is wave solderable/aqueous washable

## 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

## RJ Size Transceivers

- 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

## Highly Miniaturized OEO Conversion

- Fully 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

