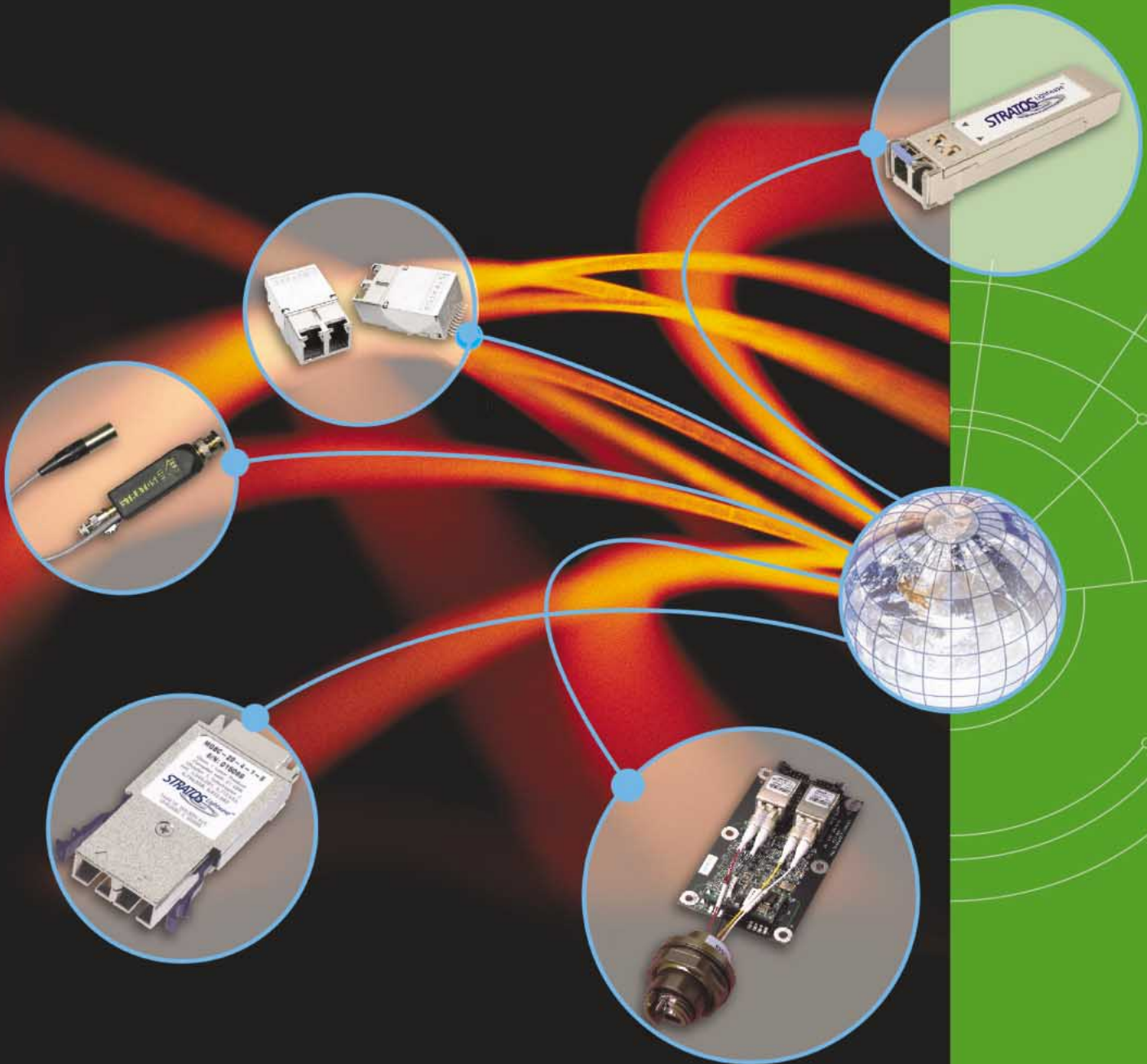


STRATOS LIGHTWAVE

Active Optical Products Guide



Innovative Customer Solutions

Sinus-Electronic

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STRATOS

Military & Aerospace Modules

LOW RIDER TRANSCEIVERS



Features

- Excellent thermal characteristics
- Exceptional EMI/RFI performance
- High tolerance to shock and vibration
- Low-profile... only 0.38 inches (8.89mm) high
- Industrial temperature rated (-40° to 85°C)
- Surface mount
- Conformal coating available

Protocols and Data Rates

- OC-3/Fast Ethernet (155 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)
- 2x Fibre Channel (2.125 GBaud)
- Infiniband (2.5 GBaud)
- Also available in custom data rates

QUATTRO MEZZANINE CARD



Features

- Provides four independent transceivers and a high-speed FPGA
- Electrical interface includes power, parallel data, clock busses and a processor bus
- Allows configuration and monitoring functions
- Card can be populated with Singlemode or Multimode optics
- 850nm or 1310nm

Protocols and Data Rates

- OC-3/Fast Ethernet (155 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)
- 2x Fibre Channel (2.125 GBaud)
- Infiniband (2.5 GBaud)

CUSTOM INTEGRATED MODULES



Features

- Full O/E physical layer solutions
- Expanded beam optical technology for harsh environments
- Fully tested to customer military specifications
- Industrial temperature ratings available

ACTIVE BULKHEAD



Features

- Integrated transceiver and media converter
- Expanded beam optical technology for harsh environments
- Industrial temperature and vibration
- Single or dual ports available

Protocols

- Fast Ethernet (100BT)
- Gigabit Ethernet (1000BT)

Military and Aerospace Modules

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SFP TRANSCEIVERS



Features

- Hot-pluggable... add or remove modules during system operation
- Choose between 850nm and 1310nm models
- User-friendly bail actuator locks module securely in place
- Digital diagnostics monitoring interface available
- CWDM models available

Protocols & Data Rates

- OC-3/Fast Ethernet (155 MBaud)
- OC-12 (622 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)
- 2x Fibre Channel (2.125 GBaud)
- OC-48 (2.488 GBaud)



Accessories

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



SFF TRANSCEIVERS



Features

- Die-cast metal housing
- Choose between 850nm and 1310nm models
- Wave solderable/aqueous washable

Protocols & Data Rates

- OC-3/Fast Ethernet (155 MBaud)
- OC-12 (622 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)
- 2x Fibre Channel (2.125 GBaud)
- OC-48 (2.488 GBaud)
- Infiniband (2.5 GBaud)



GBIC TRANSCEIVERS



Features

- Choose between 850nm, 1310 nm and 1550nm models
- Dual voltage (+3.3V/+5V) power supply
- Hot-pluggable... add or remove modules during system operation
- Compliant with ANSI X3T11 Fibre Channel and GBIC specifications



Protocols & Data Rates

- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)
- 2x Fibre Channel (2.125 GBaud)



Accessories

- GBIC guide rails provide alignment, retention and shielding solutions for all standard GBIC implementations
- Right-angle connectors provide interconnection and enable blind mating and hot plugging

RJ TRANSCEIVERS



Features

- Complete transceiver module in RJ-45 package
- Choose between 850nm and 1310nm models
- Wave solderable/aqueous washable
- Single +3.3 volt power supply

Protocols & Data Rates

- Fast Ethernet (125 MBaud)
- OC-3 (155 MBaud)
- ESCON (200 MBaud)
- Gigabit Ethernet (1.25 GBaud)



MEDIA INTERFACE ADAPTERS



MDB-9 Transceivers

- Extends distance attainable in high-speed data links to 10km
- DB-9 electrical interface
- SC duplex optical interface
- Choose between 850nm and 1310nm models
- Single +5 volt power supply
- Available for 1x/2x Fibre Channel (1.0625 GBaud/2.125 GBaud)



MHSDC Transceivers

- Extends distance attainable in high-speed data links to 10km
- HSSDC electrical interface
- LC duplex optical interface
- Choose between 850nm and 1310nm models
- Single +3.3 or +5 volt power supply
- Available for 1x/2x Fibre Channel (1.0625 GBaud/2.125 GBaud)

Enterprise Modules

1 x 9 TRANSCEIVERS



Features

- Die-cast metal or metallized plastic housing
- Choose between 850nm and 1310nm models
- Wave solderable/aqueous washable
- Single +3.3 or +5 volt power supply

Protocols & Data Rates

- OC-3/Fast Ethernet (155 MBaud)
- OC-12 (622 MBaud)
- Gigabit Ethernet (1.25 GBaud)
- Fibre Channel (1.0625 GBaud)



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VIDEO TRANSCEIVERS



Video SFF Modules

- Small size allows optical conversion directly in customer's equipment
- Supports SMPTE 259M (SD-270Mbps), SMPTE 292M (HD-1.485Gbps) and SMPTE 297H
- Supports pathological tests
- 1310nm SM devices provide highly reliable link distance performance

Video SFP Modules



- Hot pluggable... add or remove modules during system operation
- Supports both HD and SD SMPTE data protocols, including pathological tests
- Includes Digital Diagnostic Monitoring
- Dual transmit, dual receive or transceiver modules available
- Modules and cages "keyed" to prevent installation of non-video SFPs

Applications

- Video routers
- Modular distribution amplifiers
- Video signal conversion equipment
- Video surveillance equipment

BNC - FIBER MEDIA CONVERTER



Features

- Attach directly to SD/HD coax connectors on video broadcast equipment
- Separate transmit and receive units
- Supports both HD and SD SMPTE data protocols, including pathological tests
- Includes Digital Diagnostic Monitoring
- Rugged design
- Wide voltage range (4.5V to 16V)

Applications

- Video routers
- Video tape recorders
- Video monitors
- Video cameras

SD MUX/DEMUX ENGINE



Features

- Aggregates 8 SD-SDI asynchronous video signals onto optical fiber
- Stratos proprietary time domain Mux/Demux FPGA engine
- 1310nm, 3.125Gb/s output
- Fully redundant architecture with auto A/B switching
- RS 485 data and status port
- High-speed connector interface
- Can be repackaged to existing OEM chassis and frames

Applications

- Video routers
- Modular distribution amplifiers
- Video signal conversion and aggregation equipment

Video and Broadcasting Modules

Integrated Optical Components and Subsystems

Today, designers of optical communication equipment require higher integration and greater functionality in the optical components and subsystems supporting their system architecture. Stratos addresses this reality by integrating at the component level, using our technology building blocks that have been developed internally and via partnerships, to reduce costs and size and increase performance. Simultaneously, we are providing greater functional integration by combining our wide product range into easy-to-use photonic subsystems and modules.

Our capabilities include:

- Accomplished teams in optical, electronic and mechanical design
- Specialty fiber packaging techniques
- Stereolithographic modeling
- Development of highly-miniaturized, high-speed circuitry
- HALT/HASS test facilities
- Quality assurance and testing
- Microminiature injection molding
- High-performance termination and interconnect services

For additional information, please contact us directly at 708-867-9600 or email info@stratoslightwave.com.

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