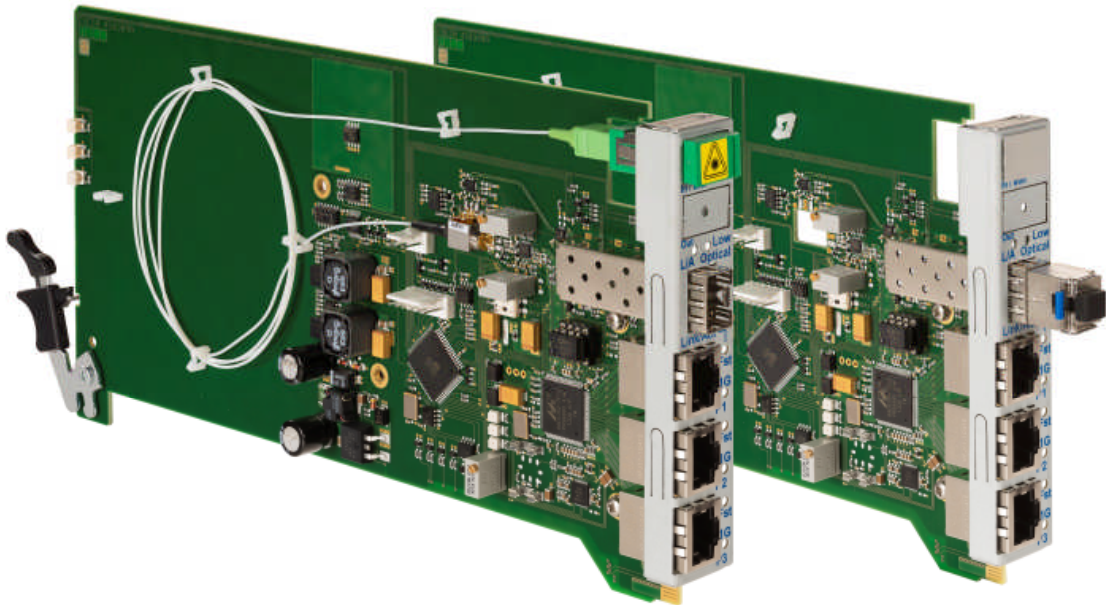


GIGABIT ETHERNET OPTICAL TRANSCEIVER FOR NET RACER PLATFORM



The NET E/R GIGA range is designed for Ethernet transmission over optical fiber. Along with the NET E/R HD SDI video modules these products are dedicated for infrastructure applications like rented transmissions or intra studio intercommunication.

The transmission board fits in NET RACER chassis, the NET RACER 3U with 16 modules capacity and the NET RACER COMPACT standalone with 2 modules capacity. The NET RACER built in management unit provides a comprehensive transmission board status through Web Browser or SNMP for local or remote management.

This module is built around best in class Ethernet switch with low latency TCAM lookup engine, for on the fly packet forwarding rather than store and forward.

As an option this module can be equipped to support, Sync-E, synchronous Ethernet clock management.

The module is equipped with 3 gigabit electrical ports and 1 optical trunk port. The optical port can be equipped with an industry standard SFP module or with a built in optical component with better performance or for best application suit. When an SFP is inserted it takes precedence over the internal optical component.

Up to three Pre defined V-LAN can be set up through the management system to share the bandwidth for different customers or different networks. It also allow a free low data rate channel for the management of remote NET RACER chassis located at customer plants away from service provider.

Depending on distance and number of fiber available for the application, standard wavelength or multichannel CWDM multiplexing can be used. Multiplexers with 4, 8 or 16 wavelength directly fits in the NET RACER platform.



TECHCNICAL SPECIFICATIONS

| Electrical: | |
|-----------------------|--|
| Number of signals: | 3 Gigabit Ethernet ports |
| Standards: | 10, 100, 1000 Mbs |
| Crossover: | Auto MDI |
| Cable equalization: | 100 m of CAT 5 cable |
| Connector: | RJ45 |
| Signaling LED: | Link/Act for 10/100 Mbs, Link/Act for 1Gbs. |
| Switch Engine | |
| Memory: | 1 Megabit |
| Packet size: | Up to 10K bytes (Jumbo Frames) |
| MAC address table: | 8000 entries |
| Routing: | Tcam based fast forward |
| Real time protocol: | Transparent to IEEE1588 and AVB frames |
| Synchronous Ethernet: | Built in SYNC-E Phase locked loop with high stability reference (optional). |
| Optical: | |
| Component: | Laser 1310nm, 1550nm, CWDM, Bidirectional module. / 1.25Gbs SFP module |
| Output power: | 0 dBm (internal optics) |
| Receiver sensitivity: | Better than - 25 dBm (internal optics) |
| Connector: | SC/APC 8° |
| Signaling LED: | Low optical level on receiver. Link/Act on 1000base FX |
| Powering: | |
| Power consumption: | 2 to 3 watts depending model type |
| Signaling LED: | Module internal power supplies in their tolerance. |
| Management | |
| NET RACER Management: | Built in unit in 19" 3U NET RACER platform <ul style="list-style-type: none"> - Board optical configuration (Laser power / Wavelength) - Signal state/ Alarms report - Optical power measurement - Pre defined VLAN settings |
| Mechanical | |
| Module size: | Single slot module for 19" 3U, 16 slots NET RACER Platform or Standalone box with 2 slots: NET RACER COMPACT. |