

## ViaLiteHD<sup>®</sup> – Gigabit Ethernet Link

### Gigabit Ethernet RF over Fiber Link

- GbE media converter
- 1000 BASE-T / 1000 BASE-X
- Transmission Distances up to 80 km
- No special signal coding requirements
- Immunity to electrical interference
- SNMP compatible



The **ViaLiteHD** Gigabit Ethernet RF over fiber link provides a highly reliable, full duplex transmission of Ethernet signals over two single-mode optical fibers for distances of up to 80 km.

Available in Rack Chassis card or OEM module formats, the Gigabit Ethernet link can be housed in a standard **ViaLiteHD** 3U or 1U Rack Chassis, function as a standalone unit or be integrated into existing customer equipment.

A fully populated 19" **ViaLiteHD** 3U Rack Chassis supports up to 26 links and accepts 13 RF and accessory cards, plus an SNMP card and dual power modules. A 1U Rack Chassis accepts three RF cards or two RF cards, plus an SNMP card.

**ViaLiteHD** Blue OEM modules can be used for a compact link. Yellow OEM modules allow system integrators and manufacturers to build RF/optical interfaces into their own design. A range of support modules and accessories, including indoor rack equipment and weatherproof outdoor enclosures, are also available.

#### Applications

- Industrial control and monitoring
- Satellite communication monitoring
- SCADA and data communications links
- Military tactical networks
- Time server and clock signal distribution
- Cellular and TETRA base station

#### Formats

- 3U Rack Chassis
- 1U Rack Chassis
- Blue OEM modules
- Yellow OEM modules

## Technical Specification

|                       | Units | Note | Ethernet Rack Module                                                                                                                                                           |
|-----------------------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Rate             | Gbps  |      | 1                                                                                                                                                                              |
| Fiber Interface       |       |      | Gigabit Ethernet IEEE 802.3z, Full duplex, two fibers                                                                                                                          |
| Laser Power Output    |       |      | Class 1                                                                                                                                                                        |
| Optical Wavelength    | nm    |      | 1550 nm +/- 20 nm (1310 nm / DWDM options)                                                                                                                                     |
| Fiber Type            | mm    |      | Single Mode 9/125 mm, Corning SMF28 or equivalent                                                                                                                              |
| Optical Connector     |       |      | SC/APC, FC/APC, LC/APC and E2000/APC<br>(LC/APC not available for Blue OEM)                                                                                                    |
| Optical Path Length   |       |      | 0 – 10 km for 1310 nm with single mode fiber<br>0 – 40 km for 1550 nm with single mode fiber<br>0 – 80 km for 1550 nm with single mode fiber (minimum path loss 5 dB required) |
| Operating Temperature | °C    |      | -20 °C to +50 °C                                                                                                                                                               |
| Storage Temperature   | °C    |      | -40 °C to + 70 °C                                                                                                                                                              |