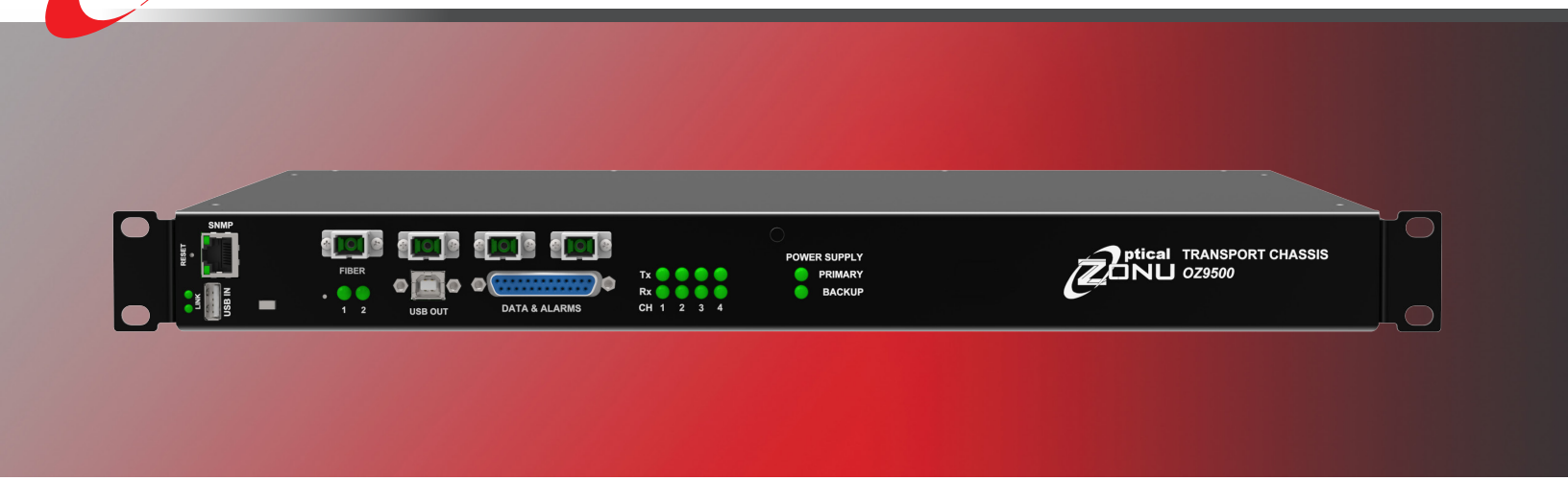
RF AND TIMING DISTRIBUTION OVER FIBER

Turnkey 19" 1RU Interfacility Link Subsystem



Features

- RF Signal Transport 30 MHz to 3 GHz (6 GHz is optional)
- 0°C to 50°C Ambient Operating Temperature Range
- Houses up to 8 "OZ5xx-style" Transmitters and/or Receivers
- IRIG-B / 1PPS / TTL Signal Transport
- 10 – 200 MHz Low Phase Noise Reference Transport
- 1310 nm, 1550 nm, CWDM Wavelengths
- Remote Monitoring via SSH, HTML, Embedded GUI Application, SNMP v2 and v3
- Local LED and Dry Contact Alarms
- Dual Universal AC Power Supply
- MTTF Exceeds 10 Years at 50°C
- 1RU, 19" x 15" Chassis
- Lasers Conform to Class 1 Emission Level Per CDRH and IEC-825 (EN 60825) Standards

Options

- Extended Low Frequency, 10 kHz
- Extended Operating Temperature Range, 0°C to +60°C
- Multiple Integrated CWDM Configurations
- DC Power Supply
- Multimode Fiber Compatibility
- 1RU, 19" x 12" Chassis

Applications

- Interfacility Links
- RF Over Fiber Transport
- Teleport RF Signal Distribution
- Antenna Site Diversity
- Timing Distribution
- Radar Systems RF Signal Transport
- GPS Distribution
- TVRO
- VSAT
- 4G LTE
- Cellular Backhau1

OZC9500

Description

The OZC9500 platform is an EIA 310-D 19" 1RU chassis that accommodates up to eight OZ5xx-style fiber optic transmitter and/or receiver sub-assemblies. Transmitters feature linear uncooled isolated DFB laser diodes. Receivers feature high-performance InGaAs photodiodes. Any combination of the following signal formats is available.

- RF, 30 – 3000 MHz
- RF, 30 – 4000 MHz
- RF, 30 – 6000 MHz
- 10 – 200 MHz Low Phase Noise Reference
- IRIG-B / 1PPS / TTL
- L1, L2 GPS

Options are available for extending the low frequency RF roll-off down to 10 kHz. RF modules are optimized for linear signal transport with high spuriuos-free dynamic range (SFDR). The standard RF interface is 50Ω SMA.

Signals may be transported on dedicated fibers (up to 8). In environments with limited fiber, or where there may exist an advantage for transport over a single fiber, coarse wavelength division multiplexing (CWDM) is available. Up to 8 signals (in either direction) may be multiplexed onto a single fiber. Depending on the location of other sites in the fiber transport network, 2-8 signals may be multiplexed onto a single fiber.

Sub-assemblies within the OZC9500 platform may be monitored and controlled in a number of ways. Locally, status LEDs for each module are present on both the front and the back of the chassis. Alarm and monitor functions are also available via dry relay contacts accessed by means of a DSUB-25 connector on the front of the chassis. There are multiple ways to monitor and control modules within the OZC9500 remotely. Administrators may access the modules via a serial or SSH console connection, a Web User Interface, and an embedded Optical Zonu graphical command and control interface. No external applications are required – just a standard web browser. The OZC9500 also supports SNMP v2 and v3.

The OZC9500 chassis is powered by dual AC or –48 VDC (optional) power supplies. A +12 VDC is also available. For multimode fiber transport options, please contact Optical Zonu.

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