GPS FIBER TRANSPORT

Transport RF-Over-Fiber Connection Between
GPS Antenna & Receiver



Features & Benefits

- Supports L1 – L5 Frequencies, GLONASS, GALILEO
- Compact, Rugged IP-67 Antenna Unit
- 1 or 2 GPS Channels – 8 or 16 RF Outputs
- Auto-Switchover Redundancy Option
- Point-to-Point or Distributed GPS for C-RAN Hubs & Base Station Hotels
- Simple, Clear Alarming Integrates Easily Into Any NMS
- +40 dB Dual LNA Fiber Transmitter Option
- Wireless Infrastructure Synchronization
- Data Network Timing
- Public Utilities

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Description

The GPS Fiber Transport Link by Optical Zonu provides a simple, cost-effective and reliable RF connection between the GPS antenna and receivers in those instances where coaxial cable is impractical. Each link is wideband and supports any of the global GPS frequencies – current or future. The high dynamic range of the system ensures a transparent pass through with no distortion. A low noise pre-amplifier ensures a margin on signal-to-noise ratio while keeping the signal in the most linear operating range of the fiber optic link.

The fiber optic transmitter housing is a compact, IP-67 enclosure and supports one or two GPS antennas. Built-in Bias-Ts provide the needed DC power for each of the active GPS antennas. While the Optical Zonu GPS Fiber Transport Link can be used for point-to-point applications, the link may also be optically split up to 32 ways to provide cost-effective GPS distribution to multiple locations over lightweight fiber cable. In addition, the receiver is available with either 8 or 16 RF outputs per channel. The 2 channel version is available as independent connections or as a redundant link with auto switchover.

Antenna Status Propagation Monitoring and active load (DC load replicating antenna load, auto-termination 50Ω outputs). US PATENT 10257739 B1

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