RF Over Fiber Systems
Optical Delay Line

19” Rack Optical Delay Line

• User-defined lengths
• Reliable passive device
• Up to 100 km
• Standard 5-year warranty
• 6U, 4U & 2U 19” rack package

The ViaLiteHD Optical Delay Line is offered as part of a DWDM L-Band diversity antenna system and is utilized when time-balancing between sites is required.

Full system, time-balancing calculations are offered by ViaLite to ensure that when a system is installed all switch overs between diverse sites are seamless to the user.

Standard lengths, as well as bespoke custom-length delay compensation units, are available.

APPLICATIONS
• L-Band diversity rain fade application
• Fixed satcom earth stations and teleports
• Gateway reduction within a satellite footprint
• Government installations
• Remote monitoring stations
• Leased fiber reduction
• Disaster recovery operations

FORMATS
• 6U, 4U, 2U Chassis (length dependant)

RELATED PRODUCTS
• DCMs
• Optical EDFAs
RF Over Fiber Systems
Optical Delay Line

ViaLite System Designer
For complex designs where multiple DWDM products are required, the System Designer tool is essential for predicting and validating performance results. The software uses a drag and drop approach from a pallet of products. Once designed, the analyzer can be run to give end-to-end system results and these can then be saved as a detailed PDF. Please ask our sales team for more information.

PRODUCT CONFIGURATOR

HRN-0-00-8Z-Z50 – ViaLiteHD Delay Line Short length – 50 km
HRN-0-00-8Z-Z75 – ViaLiteHD Delay Line Medium length – 75 km
HRN-0-00-8Z-Z100 – ViaLiteHD Delay Line Long length – 100 km

TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HRN-0-00-8Z-75</th>
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<tbody>
<tr>
<td>Length</td>
<td>75 km (Length Specified by per application)</td>
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<tr>
<td>Optical Loss @ 1550 nm</td>
<td>15 dB (typ)</td>
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<tr>
<td>Interface</td>
<td>SC/APC</td>
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<tr>
<td>SBS Threshold</td>
<td>+6 dBm</td>
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<tr>
<td>Operating range</td>
<td>-20 °C to +65 °C</td>
</tr>
<tr>
<td>Storage range</td>
<td>-40 °C to +80 °C</td>
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ACCESSORIES

RF over Fiber L-Band HTS DWDM Links

- L-Band HTS (700-2450 MHz)
- Up to 500 km systems available
- 1 to 96 channels per fiber
- Ideal for Ka-Band rain fade diversity
- 5 mW Laser

RF over Fiber Timing modules

- Radio timing signals:
  - DCF, MSF signals
  - JJY, BPC, HBG, TDF, WWVB, WWV, CHU, RJH, RWM,
- IRIG-B
- Loran-C & eLoran
- 10kHz – 50 MHz signals
- GPS (via GPS Link)
- MiFID II standard

Rack Chassis

- 3U accepts up to 13 RF or Support cards, plus an SNMP card and dual power supplies
- A 1U chassis accepts up to 3 RF or Support cards or 2 cards and an SNMP card (with dual power supplies)
- Up to 26 channels per 3U chassis (using dual RF cards) – reducing the amount of rack space required
- Blind mate option
- All modules hot-swappable and auto-reconfigure with SNMP option
- On-card LNB and BUC power options
- Power fed through rear chassis connector to card Bias Tees
- System can be monitored and controlled remotely via SNMP using a web browser

Outdoor Enclosures

- CE approved and EMC compatible
- IP rated and NEMA approved
- Plug and play format
- Suitable for harsh environments
- All modules hot swappable
- Dual redundant power options
- Interface for monitor and control (M&C) systems