RF Over Fiber Systems
RF Splitters

HRD-4 RF Splitters

- 50 or 75 Ohm RF port
- DC pass through
- 700 MHz to 3 GHz range
- 10 W max forward power
- 1U 19” shelf
- 13 inputs 1:2 Split
- SMA or BNC options

The ViaLiteHD RF splitters have been designed specifically to save space in a 19” rack deployment and in the ViaLite 19” chassis by negating the need to have a splitter card installed. With enough capacity to locally split the output from a full 19” chassis, the splitters are ideal for L-Band redundancy applications. The solution comes in two types - 50 & 75 Ohm - which are fitted with either SMA or BNC connectors accordingly.

APPLICATIONS

- L-Band satcom
- Redundancy
- GPS distribution
- Saving rack space
- Military communications

RELATED PRODUCTS

- HRK-1 19” chassis
- L-Band chassis cards
- 1U L-Band 10 MHz 1:8 Splitter
- 1U L-Band 10 MHz Diplexer
- GPS chassis cards

L-BAND REDUNDANCY EXAMPLE

13x1 :2

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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 ran 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.

TECHNICAL SPECIFICATIONS

for 13x 1:2 splitter

<table>
<thead>
<tr>
<th>Part number</th>
<th>Frequency range</th>
<th>Insertion loss</th>
<th>Number of splitters / 1U rack</th>
<th>Splitter ways</th>
<th>VSWR</th>
<th>Isolation</th>
<th>Power rating</th>
<th>Amplitude balance</th>
<th>Impedance</th>
<th>DC Pass through</th>
<th>Connectors</th>
<th>Operating temperature range</th>
<th>Storage temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRD-4-L1-0T-41-R132</td>
<td>698 MHz to 3 GHz</td>
<td>&lt;0.5 dB</td>
<td>13</td>
<td>1:2</td>
<td>&gt;20 dB</td>
<td>10W</td>
<td>+/- 0.2 dB</td>
<td>50 or 75 Ohm</td>
<td>13 v to 22 v</td>
<td>SMA (50 Ohm)</td>
<td>BNC (75 Ohm)</td>
<td>-35 °C to +75 °C</td>
<td>-40 °C to +85 °C</td>
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<tr>
<td>HRD-4-L3-0T-41-R132</td>
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POPULAR PRODUCTS

HRD-4-L1-0T-41-R132 50 Ohm SMA
HRD-4-L3-0T-41-R132 75 Ohm BNC

CONNECTOR POSITIONING

75 Ohm

50 Ohm
RF Over Fiber Systems
RF Splitters

ACCESSORIES

SNMP/Web Browser Card
- Easy to use graphical user interface (GUI)
- Real time monitoring of card performance
- Alarm monitoring and event logging
- Control of gain adjustment
- Compatible with all ViaLiteHD rack chassis and cards
- Easy integration with network management systems (NMS) using management information base (MIB) tables
- Actively manage redundancy switching
- New RF cards can be automatically reprogrammed with the previous card parameters
- Remote SNMP to local SNMP connection via optical fiber
- Provides remote LAN 10/100 Ethernet link

Dual Redundancy
- 1:1 redundancy for L-Band
- Maximises link up-time
- Can be used to backup copper coax
- Manual and automatic control via SNMP
- Flexible configuration options
- Other redundancy options available

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