



## ***IF 70/140MHz fibre optic link***

- ***Low noise***
- ***Wide dynamic range***
- ***Transmits all video, data and audio modulation formats***
- ***Transmission distances of >50km***
- ***SNMP interface for remote monitoring, system programming and control***
- ***Multiple carrier transmission***

## **Advanced satcom technology**

The **ViaLiteHD** range of fibre optic links connect antennas with control rooms, network operation centres or broadcast headends.

**ViaLiteHD** links offer more than an alternative to coaxial cabling in teleport earth stations. They have been designed to provide a cost effective, technically superior installation:

- very low carrier-to-noise ratio
- extremely linear performance
- wide dynamic range



Ultra wide dynamic range and a choice of manual, soft or automatic gain control settings address the challenges of varying signal intensity caused by meteorological conditions.

A range of electrical connector options is available, including 75Ω or 50Ω impedance with BNC, SMA or MCX connectors. Optical connector options include FC/APC, E2000/APC and SC/APC.

**ViaLiteHD** fibre optic links are available as rack mounted cards, small form factor modules and Edge OEM modules.



*A fully populated 19" 3U **ViaLiteHD** rack supports up to 26 channels and accepts 13 RF and accessory cards plus an SNMP or summary alarm card and dual power supply modules. A 1U chassis accepts three RF cards or two RF cards plus an SNMP card.*

*Small form factor modules offer a compact, single link solution and Edge OEM modules allow system integrators and equipment 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.*



## RF Performance Characteristics

	IF link (50Ω)	IF link (75Ω)
Frequency range	10-200MHz	
RF connector	50Ω SMA	75Ω BNC
VSWR	1:1.5 (typ)	
Link gain (Tx/Rx)	+9 (-11/+20)dB (nom) <sup>a</sup>	+3 (-11/+14)dB (nom) <sup>a</sup>
Flatness (full band)	±0.2dB (typ) <sup>a,h</sup>	±0.3dB (typ) <sup>a,h</sup>
Gain stability	0.25 @ 24hrs dB (typ)	
P1dB input	-1dBm (typ) <sup>a,k</sup>	
IP3 input at default gain	11dBm (typ) <sup>a,k</sup>	
Noise figure at default gain	19dB (typ) <sup>a,k</sup>	
SFDR	110dB/Hz <sup>2/3</sup> (typ) <sup>a</sup>	
Maximum input power	15dBm (min)	
<sup>a</sup> nominal input power @ 0dB optical loss <sup>h</sup> default gain setting <sup>k</sup> measured @ 500MHz		

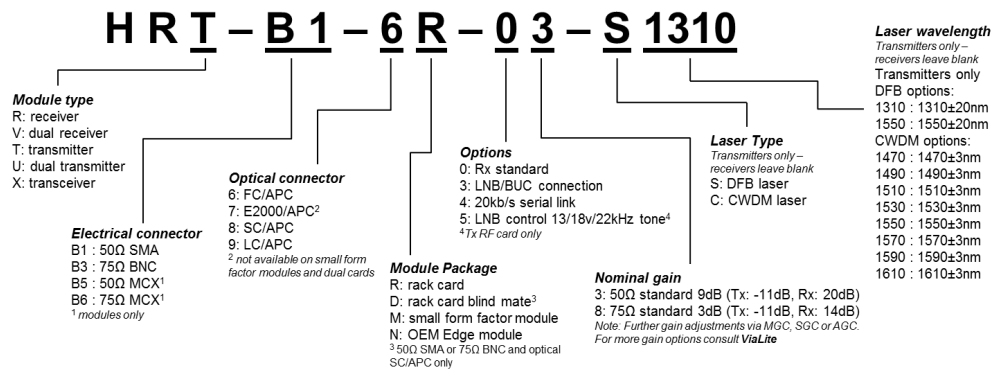
## Optical Performance Characteristics

	IF link
Laser type	DFB
Optical wavelength	1310nm ± 20nm (1550nm/CWDM options)
Optical power output	4.5dBm (nominal)

## Temperature Characteristics

	IF link
Operating temperature	-20degC to +50degC
Storage temperature	-40degC to +70degC

## Part Numbers and Options



## Mechanical Dimensions

