

Receive path L-band + reference link

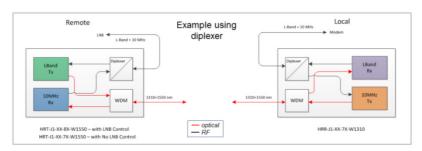
- Suitable for all modulation formats
- Ultra-wide dynamic range
- Negligible intermodulation
- SNMP and web interface for remote monitoring and control
- Multiple carrier transmission

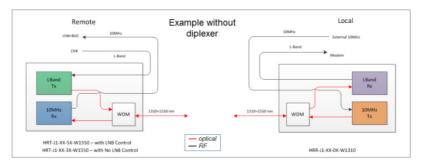
RF + reference over a single fibre

The *ViaLiteHD* L-band + reference link is designed for applications where remote equipment shares a common frequency reference – typically 10MHz – however the link will support reference signals in the range 5-20MHz.

- Reference and traffic signals are transported on different wavelengths to minimise intermodulation
- Requires only a single fibre
- Reference can be supplied on a single RF connection with the carrier signal or from separate input sources
- A multiplexed signal can be connected to the LNB or demultiplexed and supplied to two separate RF connections
- Transmit path link also available.







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 links and accepts 13 RF cards plus an SNMP 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 is also available.

ViaLiteHD Receive Path L band and Reference Link Datasheet HRx-Jx-DS-2.docx

CR3206

01/05/14

RF Performance Characteristics

	L-Band	Reference (50 ohms)
Impedance	50 ohms, duplexed	
Frequency range	950 - 2150 MHz	5-20 MHz
Flatness	± 1.5 dB (max) ^{a d} ± 0.5 dB (typical) ^{a d} ± 0.2 dB in any 36 MHz ^{a t}	± 0.5 dB (typical) ^{a d}
VSWR (50 Ohm)	1:1.5 ^t	
IMD	-62 dBc ^{tc}	-
CNR	57 dB ^{t b}	-
Test input / output signal	-20 dBm	0 dBm
Maximum input power	+15 dBm (without damage)	
Gain stability	0.25 dB over 24 hours	
RF link gain (nominal)	+9 dB ^a	0 dB ^a
Input IP3(at default gain)	+12 dBm ^{t c}	-
P1dB (at default gain)	0 ^t dBm	+10 dBm
Noise figure(at default	20 dB ^{t a}	34 dB ^{t a}
LNB power (optional)	Internal 13/18V @ 700mA, with switchable tone	
SFDR	110 dB Hz 2/3 ^{t a}	-
Reference sidebands	65 dBc ^t	-

L-Band	Reference (50 ohms)			
75 ohms, duplexed				
950 - 2150 MHz	5-20 MHz			
± 1.5 dB (max) ^{a d} ± 0.8 dB (typical) ^{a d} ± 0.2 dB in any 36 MHz ^{a t}	± 0.5 dB (typical) ^{a d}			
1:1.5 ^t				
-50 dBc ^{t c}	-			
55 dB ^{t b}	-			
-20 dBm	0 dBm			
+15 dBm (without damage)				
0.25 dB over 24 hours				
+3 dB ^a	0 dB ^a			
+12 dBm ^{t c}	-			
0 dBm	+4 dBm			
22 dB ^{t a}	34 dB ^{t a}			
Internal 13/18V @ 700mA, with switchable tone				
109 dB Hz 2/3 ^{t a}	-			
60 dBc ^t	-			

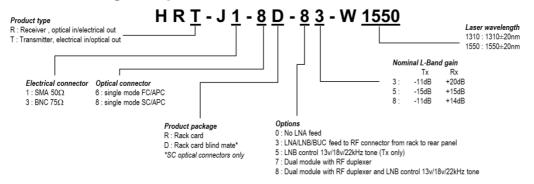
Optical Performance Characteristics

	L-Band	Reference
Laser type	DFB	DFB
Optical wavelength	1550 nm ± 20 nm	1310 nm ± 20 nm
Optical power output	4.5 dBm (nominal)	4.5 dBm (nominal)
Optical connector	SC/APC (E2000/APC and FC/APC options)	SC/APC (E2000/APC and FC/APC options)

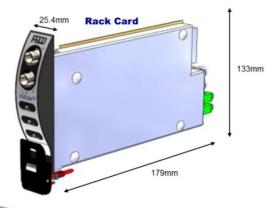
Temperature Characteristics

		L-band + 10MHz Link	
Operating temperature	-20℃ to +50℃		
Storage temperature	-40℃ to +70℃		

Part Numbering and options



Mechanical Dimensions





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