



## Low frequency timing reference link

- Suitable for a range of timing/synchronisation and satcom applications
- TEMPEST / INFOSEC, EMC, EMP and secure data centre installations
- Low frequency IRIG-B option (90Hz-200Hz)
- Transmits all analogue RF timing reference signal formats
- Wide range of gain options
- Transmission distances of >50km
- SNMP interface for remote monitoring, system programming and control

## Timing and synchronisation

The **ViaLiteHD** timing reference fibre optic link is designed to distribute a central timing reference signal to remote locations in new or existing single mode fibre networks.

The wide bandwidth of 10kHz-50MHz allows transmission of various timing reference standards such as

- MSF
- DCF
- IRIG-B
- HBG-75kHz
- Loran and eLoran
- Other signals at 1MHz, 10MHz and 50MHz



The **ViaLiteHD** range of fibre optic links is ideal for long range RF transmission and for use in secure government and military networks.



**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

	Low frequency timing reference link <sup>1</sup>
Frequency range	10kHz - 50MHz
Impedance, RF connector	50Ω SMA
VSWR	1:1.5 (typ)
Link gain (Tx/Rx)	0 (-25/+25)dB (nom) <sup>a,h</sup>
Flatness, full band	±0.2dB (typ) <sup>a,h</sup>
Gain stability	0.25 @ 24hrs dB (typ)
P1dB input	10dBm (typ) <sup>a,k</sup>
IP3 input	22dBm (typ) <sup>a,k,h</sup>
Noise figure	32dB (typ) <sup>a,k,h</sup>
SFDR	109dB/Hz <sup>2</sup> (typ) <sup>a</sup>
Maximum input power	20dBm (min)
<sup>1</sup> specification for 0dB gain link, Tx:-25dB gain, Rx:+25dB gain <sup>a</sup> nominal input power @ 0dB optical loss <sup>h</sup> default gain setting <sup>k</sup> Measured @ 10MHz	

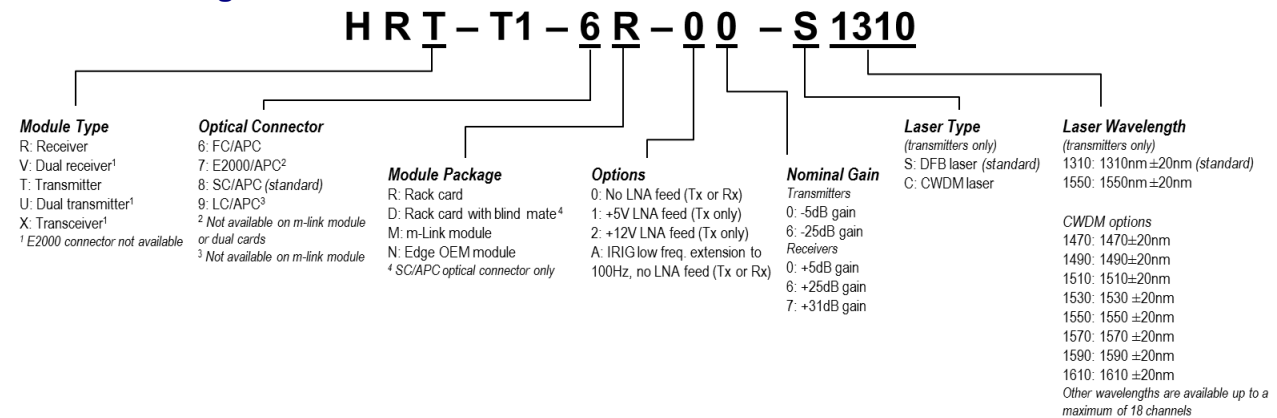
## Optical Performance Characteristics

	Low frequency timing reference link <sup>1</sup>
Laser type	Distributed feedback (DFB) laser
Optical wavelength	1310nm ± 20nm (1550nm/CWDM options)
Optical power output	4.5dBm (nominal)

## Temperature Characteristics

	Low frequency timing reference link <sup>1</sup>
Operating temperature	-20degC to +50degC
Storage temperature	-40degC to +70degC

## Part Numbering



## Mechanical Dimensions

