www.vialite.com
sales@vialite.com
+44 (0)1793 784389
+1 (855) 4-VIALITE

ViaLiteHD® – Black OEM Link

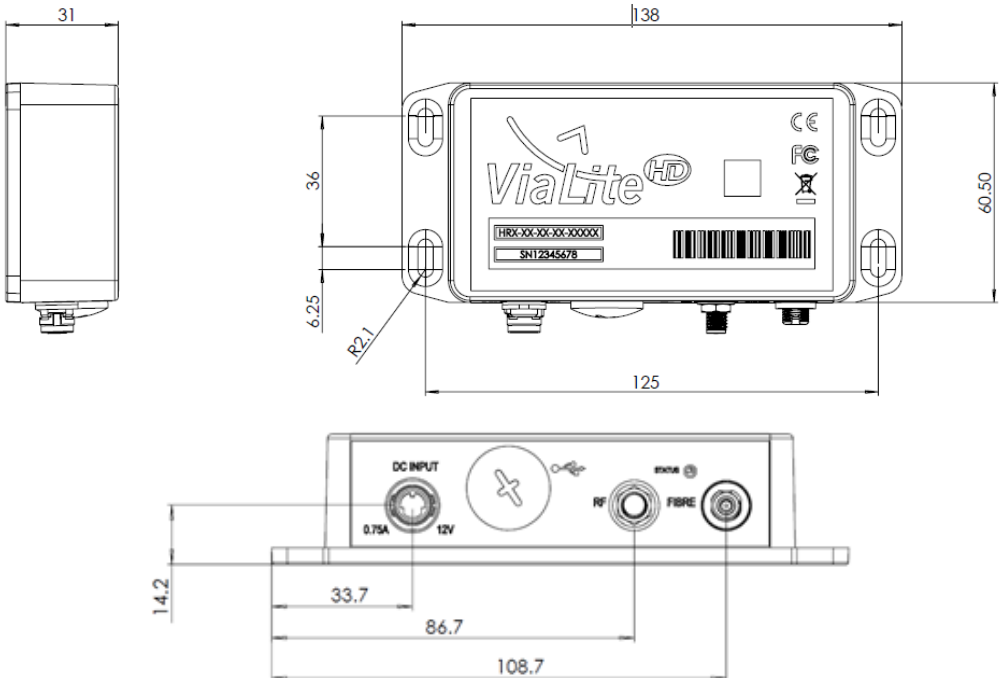
RF over Fiber OEM Module

- **Outdoor IP55 rated**
- **10 MHz to 6 GHz Link (7 GHz at 4 dB pt)**
- **Multi-purpose link**
- **Single Tx or Rx**
- **Connectivity for module user settings (through USB-C)**
- **Supports link distances up to 50 km**
- **Supports 5 and 12 V LNA feed**
- **-20 to + 60 ºC operating temp.**
- **5-year warranty**

The **Black OEM Module** is an outdoor rated RF over fiber module which covers a wide frequency range from 10 MHz to 6 GHz. With this range in frequency, the OEM unit can be used in a wide variety of applications, such as Broadcast, Satcom, GPS/Timing and Mil-Aero. With an IP55 rating, the OEM Module is suitable for installations in harsh environmental conditions without needing an outdoor enclosure.

The module can be easily installed as a standalone product for temporary or permanent applications. The unit uses an external power supply to provide the 12V DC input. The modules can be configured through a USB-C port and has several software configurable parameters that can be changed on site.

Black OEM Physical Dimensions

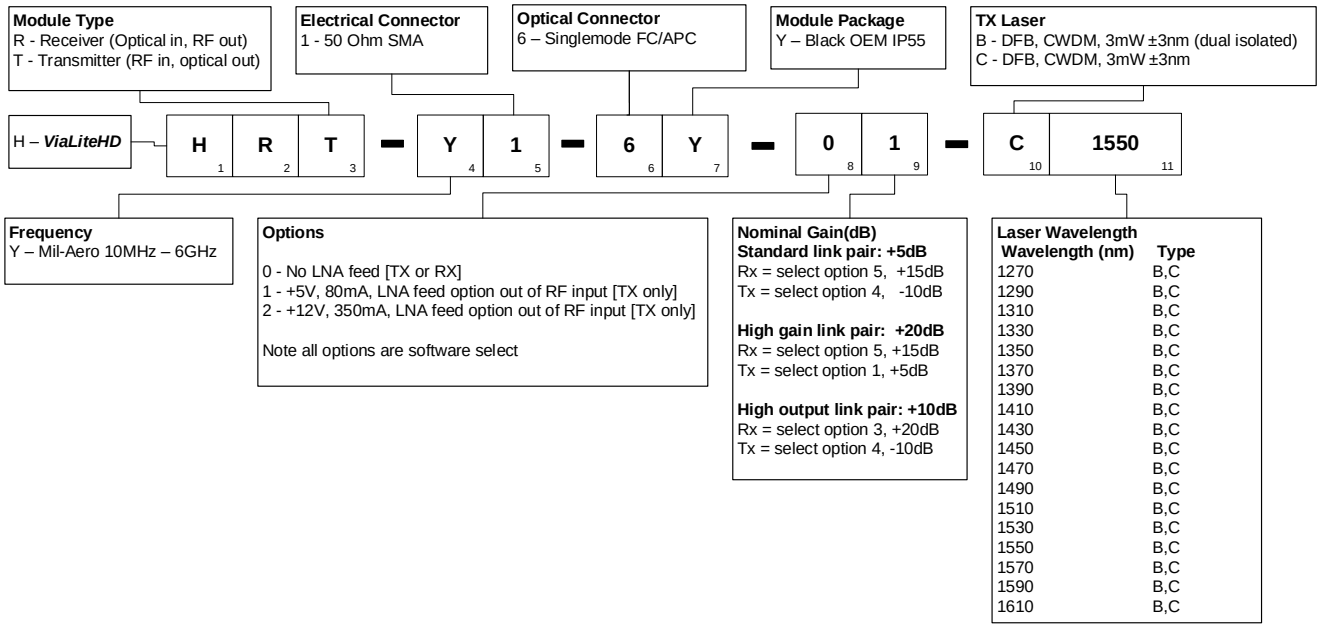


Technical specification

	Standard Gain Link HRT-Y1-6Y-**04**-C1550 HRR-Y1-6Y-**05**	**High Gain Link** HRT-Y1-6Y-**01**-C1550 HRR-Y1-6Y-**05**	**High Output Link** HRT-Y1-6Y-**04**-C1550 HRR-Y1-6Y-**03**
Frequency (typ.)	20 MHz to 6 GHz (1 dB Pt) 10 MHz to 7 GHz (4 dB Pt)	20 MHz to 6 GHz (1 dB Pt) 10 MHz to 7 GHz (4 dB Pt)	20 MHz to 6 GHz (1 dB Pt) 10 MHz to 7 GHz (4 dB Pt)
Input P1dB (typ. @ 1500MHz)	0 dBm	-15 dBm	0 dBm
IP3 (typ. @ 1500MHz)	10 dBm	-5dBm	10 dBm
Band Flatness (typ. 20 MHz to 6000 MHz)	+/-1 dB	+/-1 dB	+/-1 dB
Gain Adjustment from Nominal	+5 dB to -9.5 dB 0.5 dB attenuation steps	+5 dB to -9.5 dB 0.5 dB attenuation steps	+5 dB to -9.5 dB 0.5 dB attenuation steps
Nominal Link Gain (typ.)	+5 dB Gain Tx -10dB, Rx +15dB P/N Tx = 04, P/N Rx = 05	+20 dB Gain Tx +5dB, Rx +15dB P/N Tx = 01, Rx = 05	+10 dB Gain Tx -10dB, Rx +20dB P/N Tx = 04, Rx = 03
Impedance	50 Ω	50 Ω	50 Ω
Noise Figure (typ. @ 1500MHz)	20 dB	10 dB	20 dB
Isolation (typ.)	>60 dB	>60 dB	>60 dB
VSWR (typ.)	1.5:1	1.5:1	1.5:1
Gain Stability over Temperature (typ.) [a]	+/-3 dB	+/-3 dB	+/-3 dB
SFDR (typ. @ 1500 MHz) SFDR (typ. @ 5 GHz)	109 dB/Hz(2/3) 104 dB/Hz(2/3)	109 dB/Hz(2/3) 104 dB/Hz(2/3)	109 dB/Hz(2/3) 104 dB/Hz(2/3)
Additional control features	Software controllable parameters via USB-C, p/n 55058 Antenna Fault Detection (AFD), senses LNA current feed		
Maximum RF input power without damage	+20 dBm (min)		
Operating temperature	-20°C to +60 °C		
Humidity	0-95% non-condensing		
Cooling	Convection		
Power consumption	Transmitter: 1.8 W typical Receiver: 1.2 W typical		
DC Input voltage	8-15 V, 12 V nominal (>18 V damage)		
Power supply compatibility	Black OEM p/n 73955 OEM power connector, 2 m cable, bare wire end Black OEM p/n 70094 IP55 rated enclosure with +12 VDC PSU, requires AC main connection		

[a] measured across a temperature window of 40 °C

Product Configurator



Note: C1550 nm is default laser & wavelength

Popular products

Standard Gain Link Pair, High P1dB

HRT-Y1-6Y-04-C1550
ViaLiteHD RF Link, Transmitter (E/O), Mil-Aero 10 MHz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, -10 dB RF Gain, CWDM single isolated DFB, Wavelength 1550 +/- 3 nm.

HRR-Y1-6Y -05
ViaLiteHD RF Link, Receiver (O/E), Mil-Aero 10 MHz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, 15 dB RF Gain.

High Gain Link Pair, Low P1dB

HRT-Y1-6Y -01-C1550
ViaLiteHD RF Link, Transmitter (E/O), Mil-Aero 10 MHz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, +5 dB RF Gain, CWDM single isolated DFB, Wavelength 1550 +/- 3 nm.

HRR-Y1-6Y -05
ViaLiteHD RF Link, Receiver (O/E), Mil-Aero 10 MHz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, 15 dB RF Gain.

High Output Link Pair, +10dBm output

HRT-Y1-6Y -04-C1550
ViaLiteHD RF Link, Transmitter (E/O), Mil-Aero 10 MHz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, -10 dB RF Gain, CWDM single isolated DFB, Wavelength 1550 +/- 3 nm.

HRR-Y1-6Y -03
ViaLiteHD RF Link, Receiver (O/E), Mil-Aero 10 M Hz-6 GHz, 50 Ohm SMA, Singlemode FC/APC, Black OEM link, No LNA Feed, 20 dB RF Gain.