

ViaLiteHD® – Mil-Aero 6GHz Link Pair

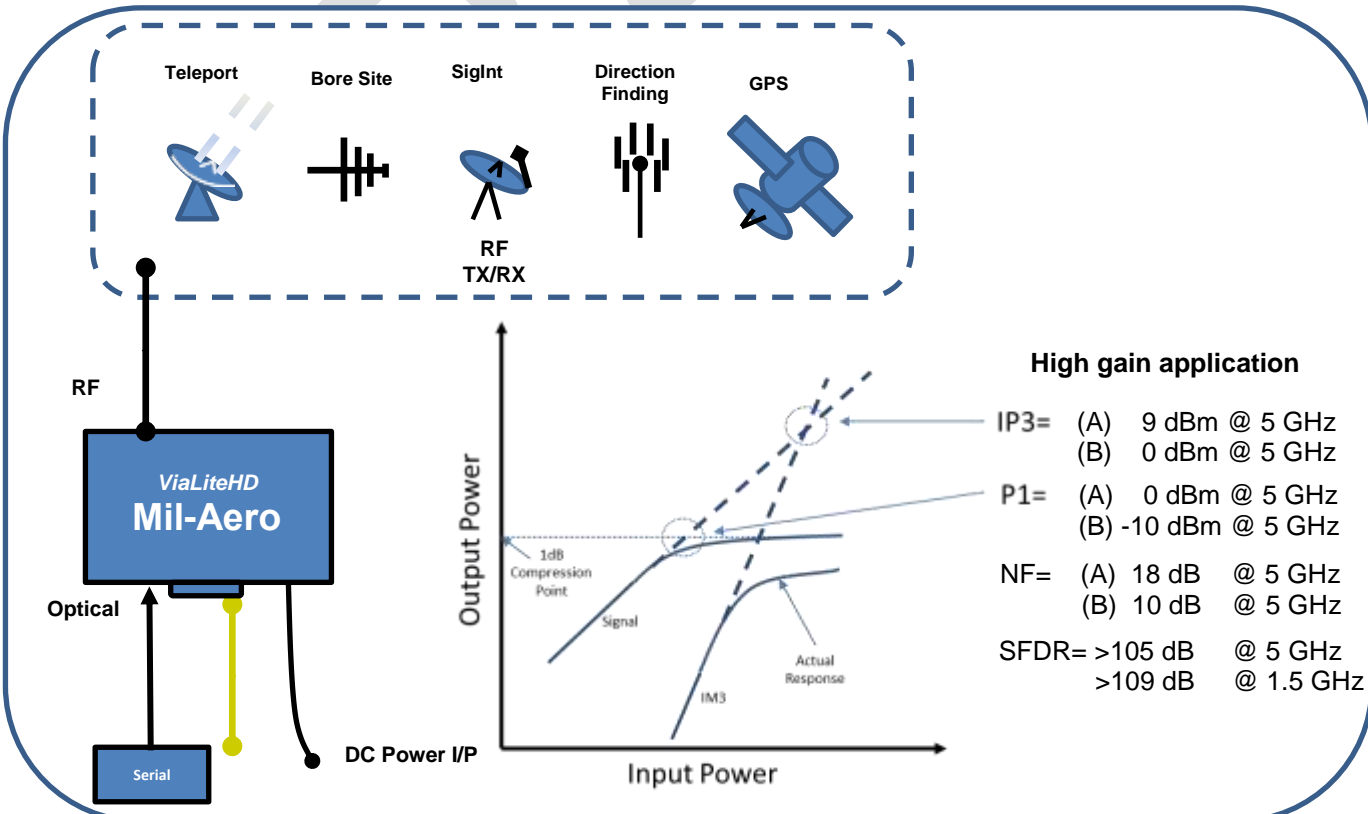
Mil-Aero RF over Fiber Link Pair

- 10MHz to 6GHz Link Pair
- Unity Gain or High Gain +20 dB Options
- Multiple Packaging Configurations
- High Spurious Free Dynamic Range
- Low Noise Figure
- Connectivity for M&C
- Supports > 10km to 50 km distances
- -20 to + 60 degree C Operating Temp
- 5-year warranty



The Mil-Aero RF over Fiber Link Pair is optimized for use in Mil-Aero applications such as Bore Site communications and Signal Intelligence gathering (SigInt). The Link Pair electrical performance is optimized for excellent balance between low noise figure (NF), high 1 dB CP and an industry leading spurious free dynamic range (SFDR). When harsh environmental conditions are a design consideration, an IP5x module can be used, or the Blue OEM modules can be installed within a variety of **ViaLite** outdoor enclosures, such as the 2 port ODE-Mini or the 4 port ODE-A4. **ViaLite**'s Mil-Aero Link Pair comes in various form factors, such as stand-alone modules (Blue & Black) and chassis rack cards. Chassis rack cards are managed and configured via a site controller which utilizes SNMP and web interface, whereas stand-alone modules are field configurable via USB serial cable.

Deployment example

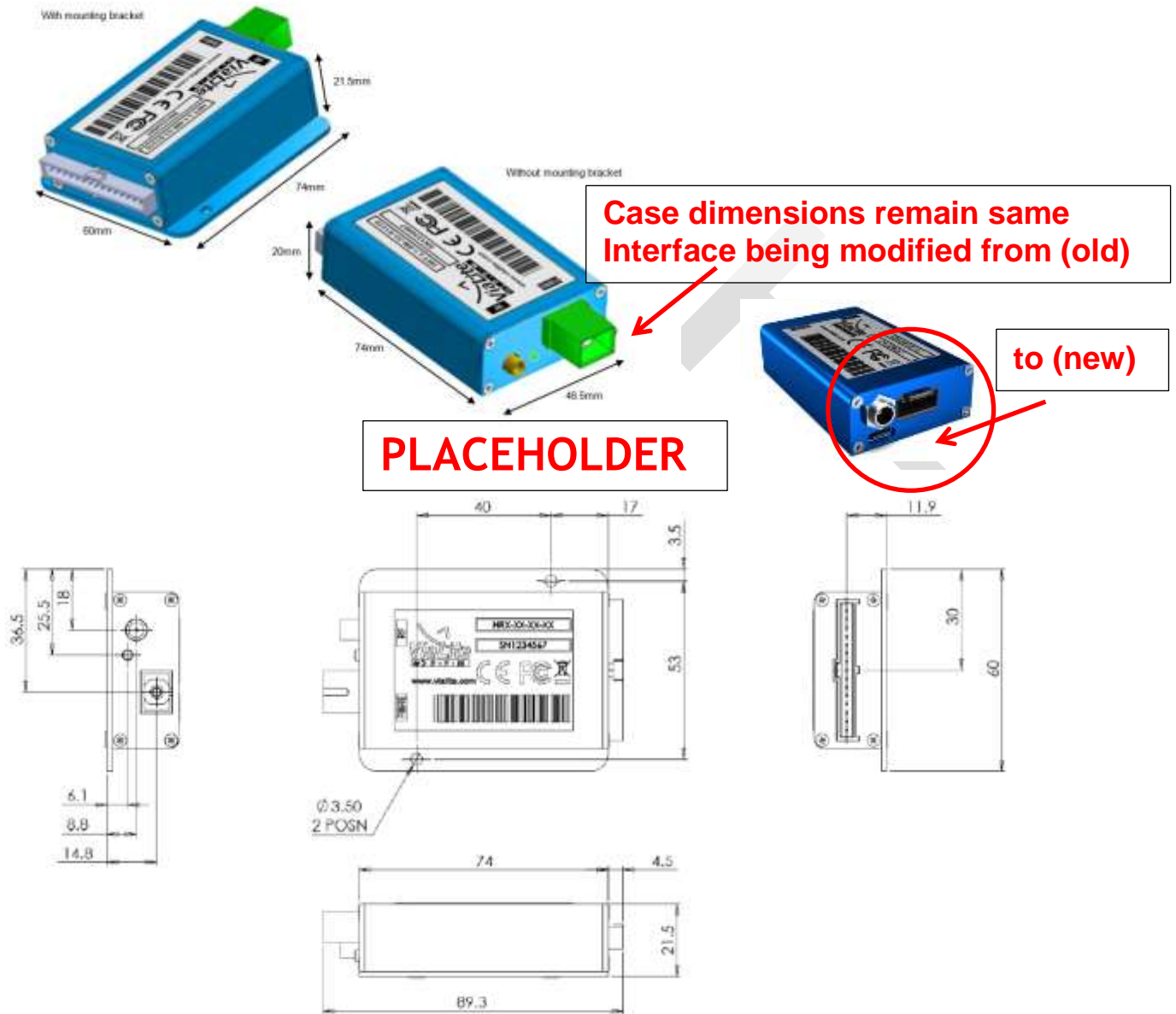


Parameters

*measurements at 5 GHz except where noted	Option A, Low Gain Link	Option B, High Gain Link
Frequency	10 MHz to 5150 MHz (1 dB Point) 6 GHz (3 dB Point)	
Input P1dB	0 dBm	-10 dBm
IP3	9 dBm	0dBm
Band Flatness	+/-2 dB	
Gain Adjustment from Nominal	+5 dB to -9.5 dB 0.5 dB attenuation steps	
Nominal Link Gain	+0 dB Gain	+20 dB Gain
Impedance	50 ohm	
Noise Figure	18dB	10dB
Isolation	>60 dB	
VSWR	1.5:1	
Gain Stability over Temperature	+/-3 dB	
SFDR	Both Options A & B, > 105 (dB/Hz) ^{2/3} @ 5 GHz > 109 (dB/Hz) ^{2/3} @ 1.5 GHz	
Operating temperature	-20°C to +60°C (OEM Modules)	
Humidity	0-95% non-condensing	
Cooling	Convection	
Power consumption	Transmitter: < 3 W Receiver: < 2 W	
DC Input voltage	OEM Modules Only 8-15 V, 12 V nominal (18 V damage)	
Power supply compatibility	OEM external Power +12VDC source	
RF module Types	1x Transmitter or 1x Receiver = Blue OEM IP5x Rated 1x Transmitter or 1x Receiver = Black OEM (not yet available) Dual TX, Dual RX, 1xTRX = Blue2 (not yet available)	



OEM Physical Dimensions (Blue OEM)



OEM Physical Dimensions (Black OEM)

PLACEHOLDER

Dimensions not yet available

OEM Physical Dimensions (Blue2 Duals 2xTX, 2xRX, 1xTRX OEM)

PLACEHOLDER

Dimensions not yet available

Popular products

Option A

Unity Gain Link Pair (0dB)

HRT-Y1-8M-0X-C1550 ViaLiteHD, Transmitter, Mil-Aero 10MHz – 6GHz, 50Ohm SMA, SC/APC, Mil-Aero OEM, No LNA feed, xxx dB Gain, CWDM 3mW

HRR-Y1-8M-0X ViaLiteHD, Receiver, Mil-Aero 10MHz – 6GHz, 50Ohm SMA, SC/APC, Mil-Aero OEM, No LNA feed, xxx dB Gain

Option B

High Gain Link Pair (+20dB)

HRT-Y1-8M-0X-C1550 ViaLiteHD, Transmitter, Mil-Aero 10MHz – 6GHz, 50Ohm SMA, SC/APC, Mil-Aero OEM, No LNA feed, xxx dB Gain, CWDM 3mW

HRR-Y1-8M-0X ViaLiteHD, Receiver, Mil-Aero 10MHz – 6GHz, 50Ohm SMA, SC/APC, Mil-Aero OEM, No LNA feed, xxx dB Gain

Product Specifications

