

ViaLiteHD[®] – Blue OEM Link

Blue OEM RF over Fiber Link

- Single Tx or Rx
- External PSU
- Protective enclosure
- 50 and 75 ohm versions
- 89 x 46 x 20 mm
- ViaLiteHD RF bands available up to 6 GHz
- Supports link distances up to 50 km
- DIN Rail mount option

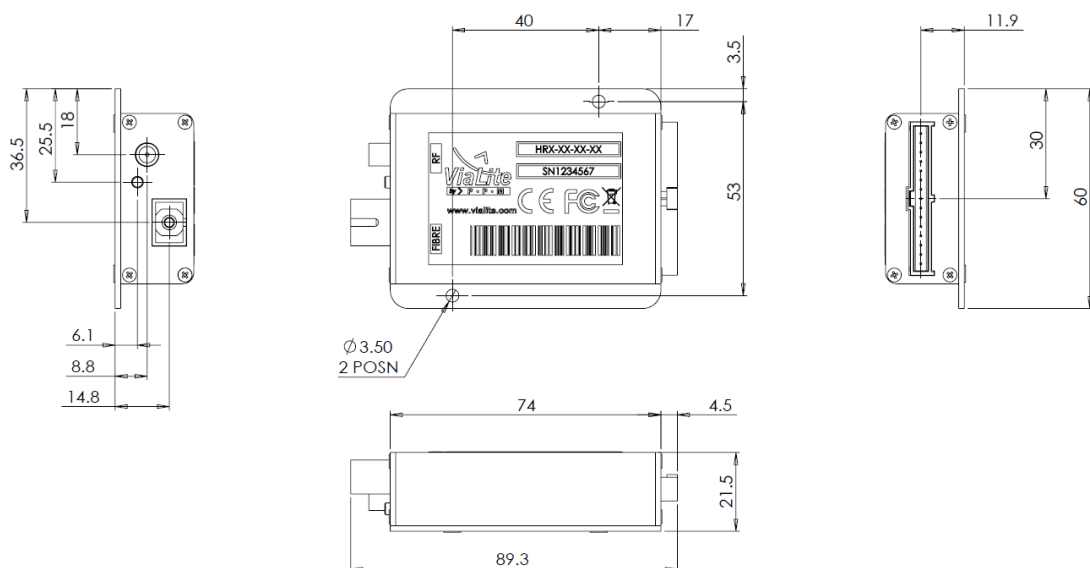


The **Blue OEM** link is a small compact RF over fiber module which is available in two module formats, Blue OEM which covers **ViaLiteHD** RF bands up to 4.2 GHz, and 6 GHz Blue OEM covering up to 6 GHz. The link is available in either transmitter or receiver configurations, with SC/APC or FC/APC optical connectors and SMA RF connectors.

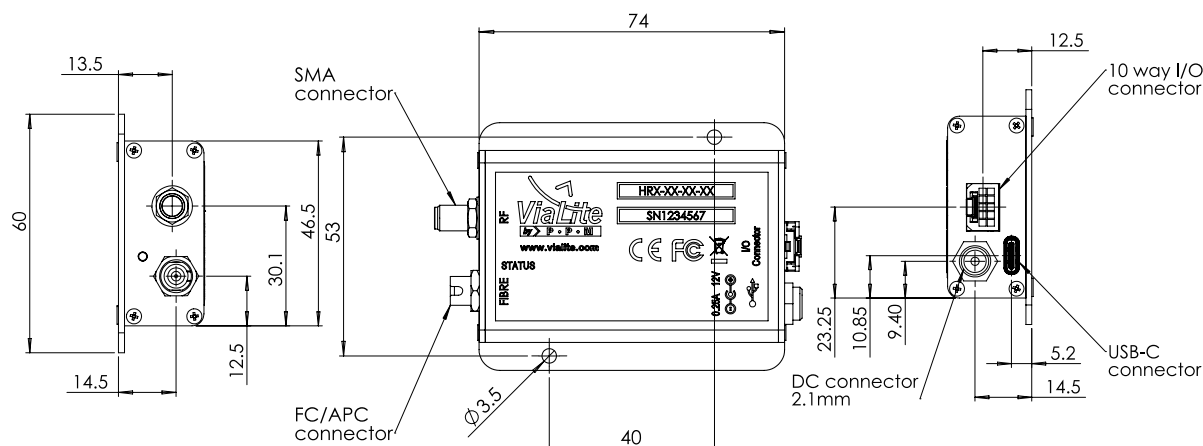
The link can be used as an OEM unit, which can be easily mounted into customer equipment, or as a standalone product for temporary or permanent. The Blue OEM link format is supplied with a 15 pin Molex single row connector which allows connections for powering, Tx or Rx alarms, I2C setup for monitoring and control and serial data transmission such as RS232, RS485 & TTL. The 6 GHz Blue OEM link format is supplied with a 10 Pin Molex double row connector which allows connections for powering, external bias and alarm monitoring. The 6 GHz Blue OEM also has a USB-C port which can be used to configure several software parameters.

The **ViaLiteHD** Programming Kit (HRX-HD-DEV103) can be used to configure module gain settings accordingly.

Blue OEM Link Mechanical dimensions (mm)



6 GHz Blue OEM Link Mechanical dimensions (mm)

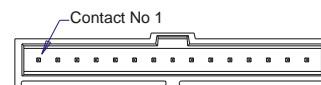


Technical Specification

	Blue OEM Link and 6 GHz Blue OEM Link
Dimensions	With mounting bracket fitted: 89 x 60 x 21 mm Without mounting bracket fitted: 89 x 46 x 20 mm
Weight	With mounting bracket fitted: 130 g typical Without mounting bracket fitted: 112 g typical
Operating temperature	-10 °C to +60 °C
Humidity	0-95% non-condensing
Cooling	Convection
Power consumption	Transmitter: 1.9 W Receiver: 1.3 W Transmitter: 1.8 W typical (6 GHz) Receiver: 1.2 W typical (6 GHz)
DC Input voltage	11 to 13 V, 12 V nominal 8 to 15 V, 12 V nominal (>18 V damage) (6 GHz)
Input / Output Control Connector	Blue OEM Link – 15 pin header (male) Molex (C-Grid III), single row (Power, Serial Data, Alarms and I2C programming) 6 GHz Blue OEM Link – 10 Way (male) Molex (IGrid), double row (Power, external bias alarms)
Power supply compatibility	HPS-CS-3 (Blue OEM Link), HPS-CB-3 Power Supply Blue OEM Link, HPS-CP-W (6 GHz Blue OEM Link)
RF module types	Transmitter or Receiver: Timing and Reference (0.01-50 MHz), IF 70/140 MHz (10-200MHz), DVB-T (470-860 MHz), VHF/UHF (10-1000 MHz), GPS (1000-1800 MHz), L-Band (700-2450 MHz), Wideband (10-3000 MHz), Extra Wideband (10-4200 MHz), Ultra Wideband (2kHz-4200 MHz), 6 GHz (10-6000 MHz)

Blue OEM Link Control Connector

Pin	Blue link Transmitter	Blue link Receiver
1	<i>TX_422_IN+</i>	<i>BUC_feed</i>
2	<i>TX_422_IN-</i>	Not used
3	<i>TX_232_IN</i>	Not used
4	GND	GND
5	+12Vdc	+12Vdc
6	Not used	<i>RX_422_OUT+</i>
7	Not used	<i>RX_422_OUT-</i>
8	Not used	<i>RX_232_OUT</i>
9	<i>LNA_feed</i>	<i>RTS_485</i>
10	LD_MON	RLL_MON
11	Not used	Not used
12	TX_ALARM	RX_ALARM
13	TX_AGC_ON	RX_AGC_ON
14	SCL	SCL
15	SDA	SDA



Blue link: Top view, 15 pin header (male)
Connector Type: Molex (C-Grid III), single row

NOTE: Connections in *blue* are optional and only available on some types of module

Compatible Mating Connectors

Part	Description	Supplier	Supplier Part
55708	C-Grid III 15-way housing	Molex	90156-0155
54245	Crimp connector 22-24	Molex	90119-2110

6 GHz Blue OEM Link Control Connector

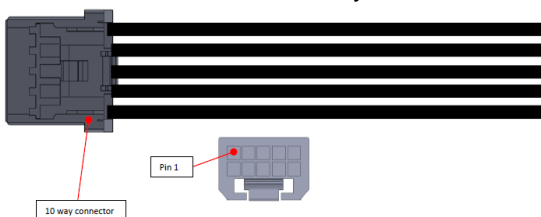
Pin Number	Name	Function
1	GND	Ground connection
2	Vin	12Vdc Power in (Alternative to 2.1mm Jack)
3	N/C	UNUSED
4	Ext_Bias	User supplied RF port Bias-T voltage (SW enabled)
5	N/C	UNUSED
6	LEV_MON1	Analogue level monitor (RF or optical power)
7	GND	Ground connection
8	N/C	UNUSED
9	SCL	I2C control clock
10	SDA	I2C control data



Blue OEM Link Optional accessories

Part Number	Description
74084	TTL input Cable. Blue OEM TTL input, 15-way Molex to BNC plug 1 metre, combined with Blue OEM PSU HPS-CS-3. Can be used for IRIG timing signals.
74085	TTL output Cable. Blue OEM TTL output, 15-way Molex to BNC plug 1 metre, combined with Blue OEM PSU HPS-CS-3. Can be used for IRIG timing signals.
73713	15-way Molex adaptor cable, all pins wired, 25cm long, unterminated. Comes as standard with the Blue OEM.

6 GHz Blue OEM Link Optional accessories

Part Number	Description
73953	6GHz Blue OEM Link control cable, 10-way Molex, to 25 cm tails unterminated. 

Power Supply and Mains Power Cable Options

Blue OEM HPS-CS-3 Power Supply	P/N 54402 Mains power cord
Blue OEM Link power supply, 15-way Molex connector, wall mounting, mains lead required (supplied as a separate item).	Mains Power Cord, IEC 60320, 2m, 6A, 250 VAC, Black, C7 socket to C14 plug.
	
Blue OEM HPS-CB-3 Power Supply	6 GHz Blue OEM HPS-CP-W Power Supply
Blue OEM Link power supply, 15-way Molex connector, international plug (no additional mains lead required).	6 GHz Blue OEM Link power supply, DC plug connector, international plug (no additional mains lead required).
	

DIN Rail Mounting Kit for 6GHz and Blue OEM

Part Number 27500
A DIN rail is a metal rail of an IEC/EN standard type widely used for mounting electrical equipment inside equipment racks. The DIN Rail Mounting Kit allows the ViaLiteHD Blue OEM to be mounted vertically and more efficiently. This approach allows custom integration into any enclosure or equipment room which has rails fitted.
