

ViaLiteHD® – Blue2 Link

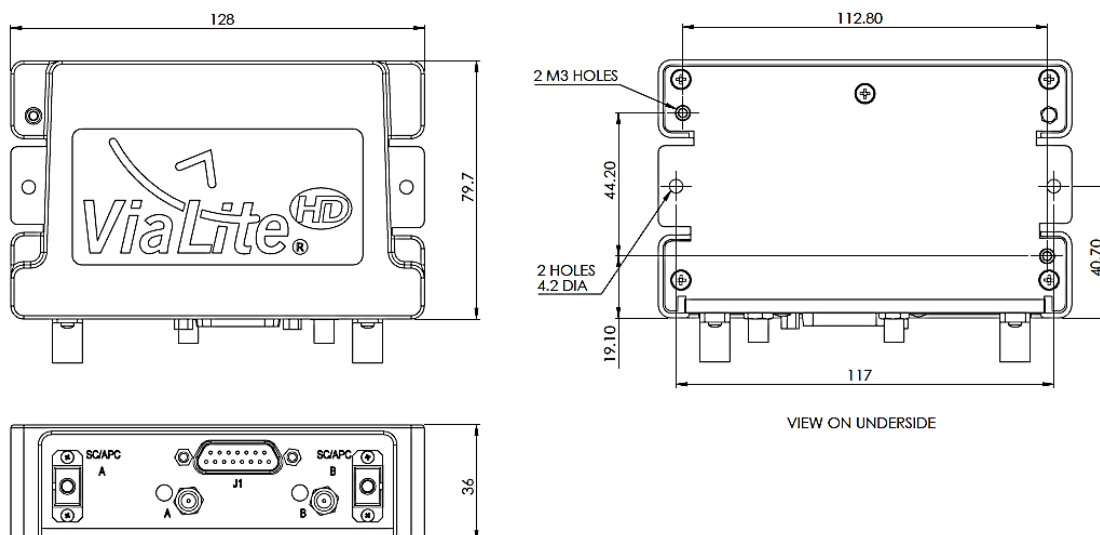
Blue2 RF over Fiber Link

- Dual Tx, Rx or Transceiver
- External PSU
- Dustproof enclosure
- Internal WDM option
- 128 x 80 x 36 mm
- RF and Serial Digital options available
- Supports up to 50 km
- 5-year warranty

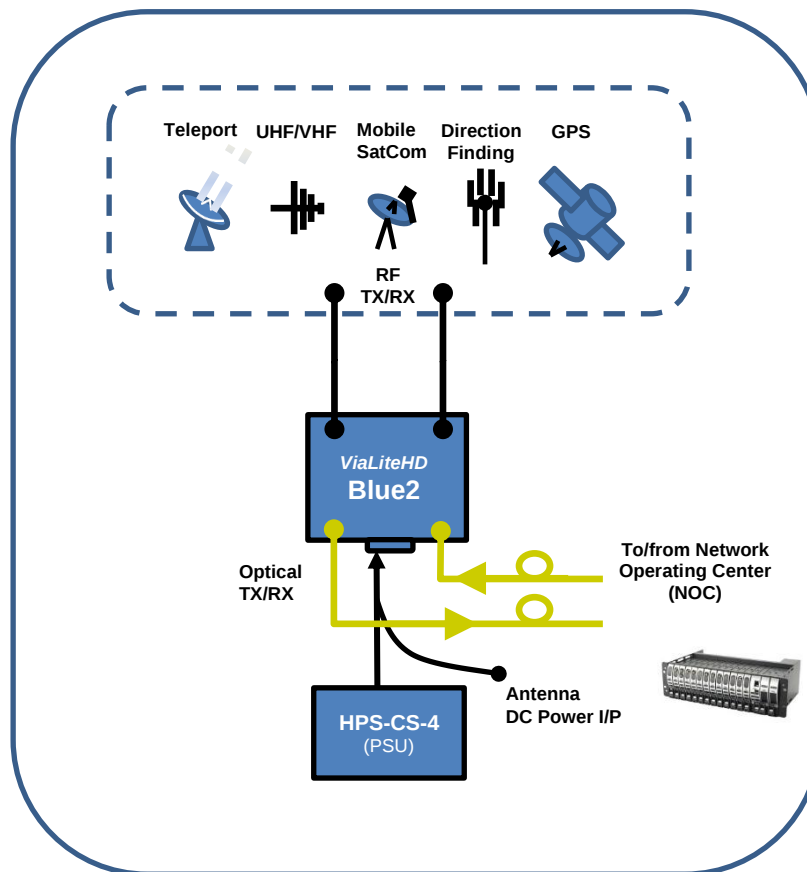


The **Blue2 OEM Link** is a small, dustproof RF over fiber module, available in **ViaLiteHD** RF bands up to 4.2 GHz and supplied in dual transmitter (Dual Tx), dual receiver (Dual Rx) or transceiver (TRx) formats. The module is available with two optical inputs/outputs or single optical inputs/outputs if the integral WDM module option is selected. The 15-way D-type connector provides a connection for serial data transmission (RS232, RS485 and TTL), Tx or Rx alarms, I2C setup using the **ViaLiteHD** Programming Kit (HRx-HD-DEV103) via Y-cable 73940, and the external power supply (optional HPS-CS-4).

Mechanical Dimensions (mm)



Deployment Example



Technical Specification

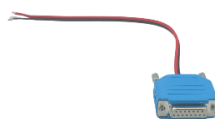
	Blue2 Link
Dimensions	128 x 80 x 36 mm
Weight	200 g typical
Operating temperature	-20 °C to +60 °C
Humidity	0-95% non-condensing
Cooling	Convection
Power consumption	Transceiver: 3.2 Dual transmitter: 3.8 W Dual receiver: 2.6 W
DC Input voltage	12 V nominal, 11 to 13 V range
Input / Output Control Connector	15-way male D-type with screw-lock termination on backplane (Power, Serial Data, Alarms & I2C programming)
Power supply compatibility	HPS-CS-4 or external 12 VDC source
RF module Types	2x Transmitter, 2x Receiver or 1x Transmitter & 1x Receiver (Transceiver), or with a single Transmitter or Receiver and a serial digital TX/RX link Various ViaLiteHD RF bands up to 4.2 GHz

Blue2 OEM Link Control Connector

Pin Number	Signal Name	Description
1	12V_IN	12 Volt input nominal, 11V to 13V range, 2A rated
2	TX/RX Alarm	Alarm output from TX and RX modules
3	LD_MON	Receive Light Level monitor
4	SDA	I2C Data connection
5	SDL	I2C Clock input from master device
6	LNA_FEED	Option for external LNA feed input on Optical TX module. Only used if internal feed is not specified
7	No Connect	
8	No Connect	
9	No Connect	
10	No Connect	
11	No Connect	
12	Ground	Ground connection
13	No Connect	
14	No Connect	
15	No Connect	

Blue2 OEM Link Optional Accessories

Part Number	Description
73930	Blue2 Loom, 15-way D-TYPE Molex 2RF Dual TX,R232/I2C
73931	Blue2 Loom, 15-way D-TYPE Molex 2RF Dual RX, RS232/TTL hybrid
73932	Blue2 Loom, 15-way D-TYPE Molex 2RF Dual TRX,
73933	Blue2 Loom, 15-way D-TYPE Molex 2RF Dual TRX, NO I2C
74090	DC power cable, 15-way D-type to unterminated, 25cm



Blue2 OEM Link Cable Connector Pinouts

Pin Number	Cable assembly 73930	Cable assembly 73931	Cable assembly 73932	Cable assembly 73933
1	+12V	+12V	+12V	+12V
2	TX_ALARM (A)	RX_ALARM (A)	TX_ALARM (A)	TX_ALARM (A)
3	LD_MON (A)	RX_RF_MON (A)	LD_MON (A)	LD_MON (A)
4	SDA (A)	SDA (A)	SDA (A)	422 IN+ (A)
5	SCL (A)	SCL (A)	SCL (A)	422 IN- (A)
6	LNA_FEED (A)	LNA_FEED (A)	LNA_FEED (A)	LNA_FEED (A)
7	TX_232_IN (A)	RX_232_OUT (A)	TX_232_IN (A)	TX_232_IN (A)
8	TX_232_IN (B)	RX_232_OUT (B)	RX_232_OUT (B)	RX_232_OUT (B)
9	LD_MON (B)	RX_RF_MON (B)	BUC_FEED (B)	BUC_FEED (B)
10	NC	Pin 10 - NC	NC	RTS(485)
11	SCL (B)	SCL (B)	SCL (B)	485/422 OUT - (B)
12	GROUND (0V)	GROUND (0V)	GROUND (0V)	GROUND (0V)
13	SDA (B)	SDA (B)	SDA(B)	485/422 OUT+ (B)
14	LNA_FEED (B)	LNA_FEED(B)	RLL_MON (B)	RLL_MON (B)
15	TX_ALARM (B)	RX_ALARM (B)	RX_ALARM (B)	RX_ALARM (B)

Blue2 OEM Power supply

HPS-CS-4 Power Supply
Blue2 OEM Power Supply, 15-Way D-Type connector, plug-in, non-wall mounting, supplied with international plug (Showing UK plug, no additional mains lead required)
