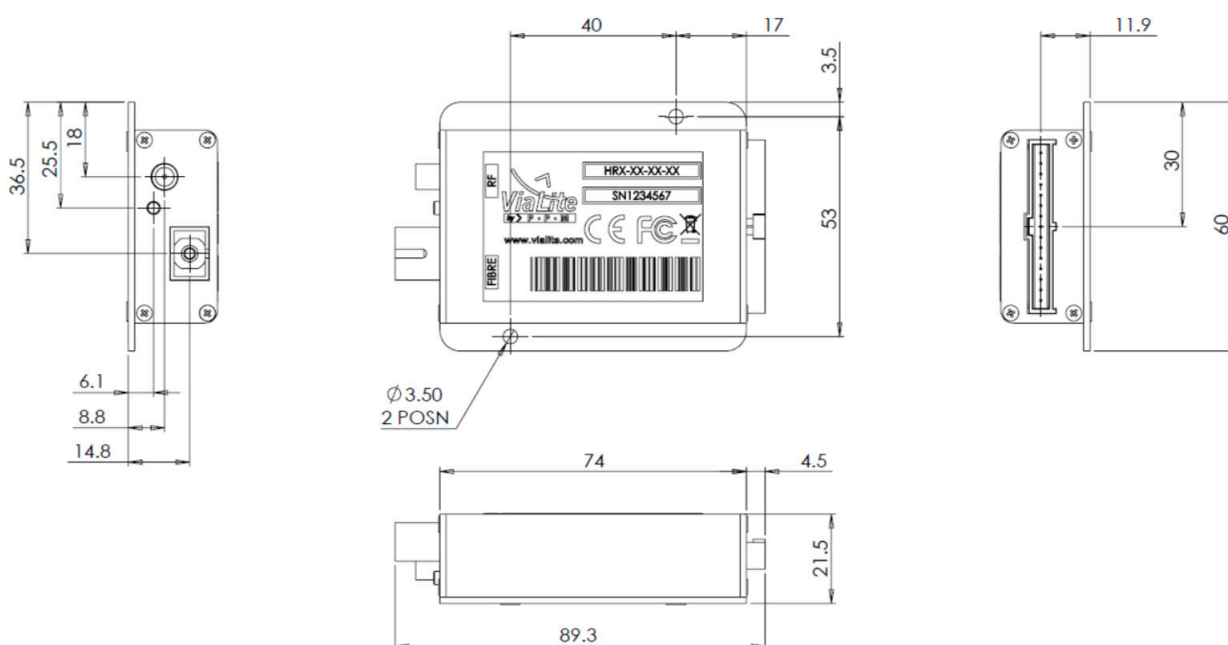## RF over Fiber Link

- Single Tx or Rx
- External PSU
- Dustproof
- 89x46x20mm
- All RF and digital modules available
- Supports 0-10 km and 50 km
- DIN Rail mount option

The Blue OEM Link is a small, dustproof RF over fiber module which is available in ViaLiteHD RF bands up to 4.2 GHz, in either transmitter or receiver formats. The link is available with SC or FC optical connectors and either SMA or MCX RF connectors.

The 15 pin Molex single row connector provides connections for serial data transmission (RS232, RS485 & TTL), Tx or Rx alarms, I2C setup using the ViaLiteHD Programming Kit (HRx-HD-DEV103) and for connecting an external power supply (optional HPS-CS-3).

Mechanical Dimensions (mm)

EUROSATCOM
VSATECH ASSOCIÉ

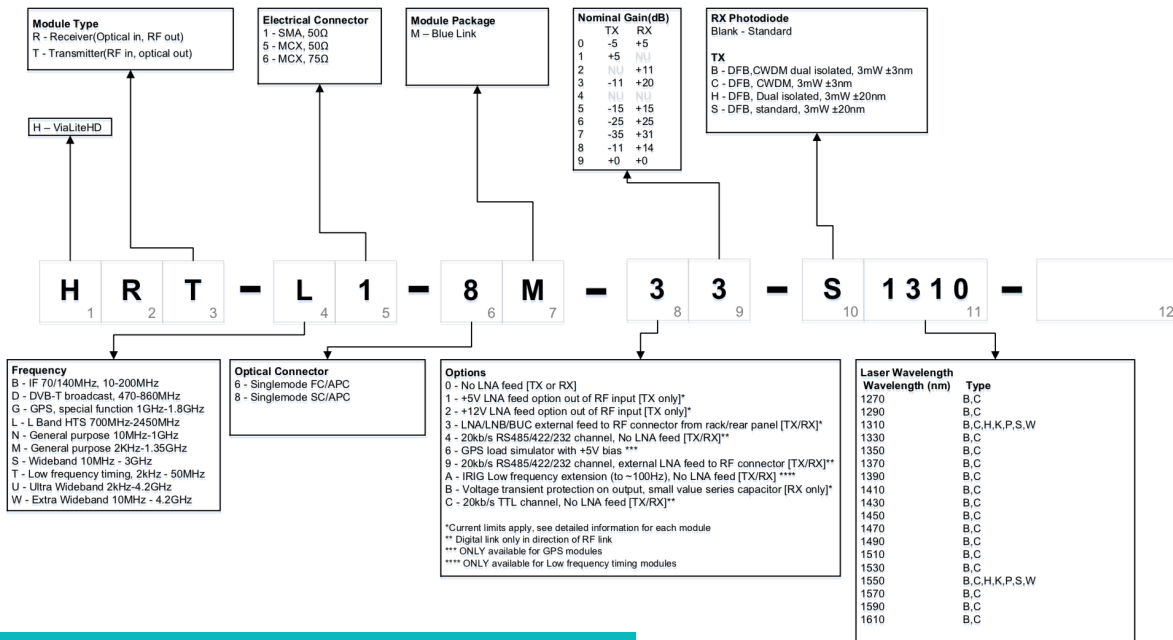3 avenue du Canada, bât. Zeta, 91940 Les Ulis, France   +33 1 69 18 19 30   www.eurosatcom.eu   sales@eurosatcom.eu

RF Over Fiber Systems
Blue OEM Link

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PRODUCT CONFIGURATOR

Module Type
R - Receiver(Optical in, RF out)
T - Transmitter(RF in, optical out)

Electrical Connector
1 - SMA, 50Ω
5 - MCX, 50Ω
6 - MCX, 75Ω

Module Package
M – Blue Link

Nominal Gain(dB)

	TX	RX
0	-5	+5
1	+5	NU
2	NU	+11
3	-11	+20
4	NU	NU
5	-15	+15
6	-25	+25
7	-35	+31
8	-11	+14
9	+0	+0

RX Photodiode
Blank - Standard

TX
B - DFB,CWDM dual isolated, 3mW ±3nm
C - DFB, CWDM, 3mW ±3nm
H - DFB, Dual isolated, 3mW ±20nm
S - DFB, standard, 3mW ±20nm

H – ViaLiteHD

H	R	T	-	L	1	-	8	M	-	3	3	-	S	1310	-	
1	2	3		4	5		6	7		8	9		10	11		12

Frequency
B - IF 70/140MHz, 10-200MHz
D - DVB-T broadcast, 470-860MHz
G - GPS, special function 1GHz-1.8GHz
L - L Band HTS 700MHz-2450GHz
N - General purpose 10MHz-1GHz
M - General purpose 2kHz-1.35GHz
S - Wideband 10MHz - 3GHz
T - Low frequency timing, 2kHz - 50MHz
U - Ultra Wideband 2kHz-4.2GHz
W - Extra Wideband 10MHz - 4.2GHz

Optical Connector
6 - Singlemode FC/APC
8 - Singlemode SC/APC

Options
0 - No LNA feed [TX or RX]
1 - +5V LNA feed option out of RF input [TX only]*
2 - +12V LNA feed option out of RF input [TX only]*
3 - LNA/LNB/BUC external feed to RF connector from rack/rear panel [TX/RX]*
4 - 20kb/s RS485/422/232 channel, No LNA feed [TX/RX]**
6 - GPS load simulator with +5V bias ***
9 - 20kb/s RS485/422/232 channel, external LNA feed to RF connector [TX/RX]**
A - IRIG Low frequency extension (to ~100Hz), No LNA feed [TX/RX] ****
B - Voltage transient protection on output, small value series capacitor [RX only]*
C - 20kb/s TTL channel, No LNA feed [TX/RX]**

*Current limits apply, see detailed information for each module
** Digital link only in direction of RF link
*** ONLY available for GPS modules
**** ONLY available for Low frequency timing modules

Laser Wavelength

Wavelength (nm)	Type
1270	B,C
1290	B,C
1310	B,C,H,K,P,S,W
1330	B,C
1350	B,C
1370	B,C
1390	B,C
1410	B,C
1430	B,C
1450	B,C
1470	B,C
1490	B,C
1510	B,C
1530	B,C
1550	B,C,H,K,P,S,W
1570	B,C
1590	B,C
1610	B,C

POPULAR PRODUCT

HRT-L1-8M-33-S1310 – Blue OEM Link L-Band (700-2450 MHz) transmitter with 50 ohm SMA and SC/APC connectors
HRR-L1-8M-03 – Blue OEM Link L-Band (700-2450 MHz) receiver with 50 ohm SMA and SC/APC connectors
HRT-G1-8M-60 – Blue OEM Link GPS transmitter with 50 ohm SMA and SC/APC connectors
HRR-G1-8M-66 – Blue OEM Link GPS receiver with 50 ohm SMA and SC/APC connectors

PARAMETER

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: 130g typical
	Without mounting bracket fitted: 112g typical
Operating temperature	-10 °C to +50 °C
Humidity	0-95% non-condensing
Cooling	Convection
Power consumption	Transmitter: 1.9 W
	Receiver: 1.3 W
DC Input voltage	11 to 13 V, 12 V nominal
Connector	15 pin header (male) Molex (C-Grid III), single row (Power, Serial Data, Alarms & I2C programming)
Power supply compatibility	HPS-CS-3
RF module types	Transmitter or Receiver
	IF (B), DVB-T (D), GPS (G), L-Band HTS (L), General purpose (N&M), Wideband (S), Low Frequency Timing Link (T), Ultra Wideband (U&W)

DIN Rail Mounting Kit for Blue OEM (P/N 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.