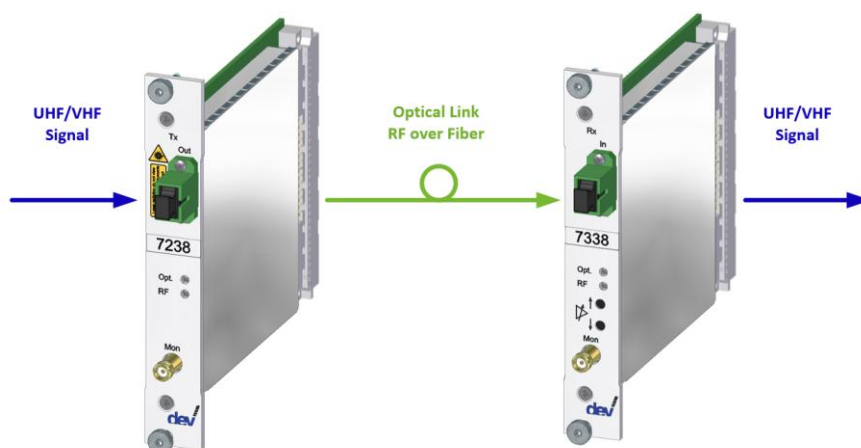


Optribution Advanced UHF/VHF Link DEV 7238 & DEV 7338



The final product may vary from the above image depending on the options selected.

Products:

- DEV 7238** UHF/VHF Optribution Transmitter; 47 ...1006 MHz;
SC/APC; 1550 nm
- DEV 7338** Advanced UHF/VHF Optribution Receiver; 47 ...1006 MHz;
SC/APC; with adjustable Gain and Slope

Features:

- Optimized for UHF and VHF Signal Transmission over Fiber
- RF Sensing Feature for Optical Transmitter (Tx) Module and Optical Receiver (Rx) Module
- RF Monitoring Port for Tx and Rx Module
- Adjustable Gain and Slope Feature for Rx Module
- Available Wavelength Options for CWDM Applications
- Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

Link Specifications DEV 7238 & DEV 7338

	Value	Condition
Frequency Range	47...1006 MHz	
Max. Link Gain	20±3 dB	
Adjustable Gain (Rx Module)	0...15 dB ±0.5 dB in 1 dB Steps	
Adjustable Slope (Rx Module)	0...18 dB in 1 dB Steps	
Flatness	±1.5 dB ±0.2 dB	47...1006 MHz In any 8 MHz window
Return Loss	>14 dB, typ. 16 dB	
Gain Stability	±2.0 dB	0...+50 °C / 32...122 °F
Group Delay Distortion	<2 ns	Note 2, 3
Nominal RF Input Level	-10 dBm	Aggregated power
Noise Figure	<26 dB	
SFDR _{2/3}	110 dB/Hz ^{2/3}	
CNR	64 dB	Note 1, 2, 3
Output IP3	>22 dBm	
OP1dB	>+7 dBm	
Intermodulation Distortion	>60 dBc	@ 2 tones, -13 dBm each
Input Power dynamic Range	-58...+1 dBm	Aggregated power
Damage RF Input Level	24 dBm	Aggregated power

Note 1: $P_{in} = -15$ dBm

Note 2: 8 MHz window

Note 3: with back to back fiber connection (2 m) and minimum noise figure

Technical Data DEV 7238 & DEV 7338

	Value	Condition
Common Optical Specifications		
Fiber Type	Single Mode 9/125 μ m	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Tx Specifications (DEV 7238)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Optical Power Output	3 mW / 4.8 dBm	
Available CWDM Wavelengths	1550 nm $\pm$ 10 nm standard, 9 different Wavelengths available	Note 1
Power Consumption	15 V; 200 mA	
Weight	~0.5 kg	
Rx Specifications (DEV 7338)		
Wavelength Range	1100...1650 nm	
Min. optical Input Level (optical Sensitivity)	>-15 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	15 V; 200 mA	
Weight	~0.3 kg	
Tx & Rx Monitor Port		
Impedance, Connector	50 Ohm, SMA (f)	
Return Loss	>16 dB typ.	
Insertion Loss / Flatness Monitor Port	= Input Level – 20 dB $\pm$ 2 dB (Tx) = Output Level – 20 dB $\pm$ 2 dB (Rx)	
Tx & Rx RF Sensing		
Adjustable Threshold Level (THL)	0 dBm > THL > -50 dBm	
Threshold Repeatability	<0.1 dB	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
Tx & Rx General Specification		
Size	4 HP (20 mm) Width, 3 RU (133 mm) Height, 3.94" (100 mm) Depth	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Note 1: Please refer to the Order Information section for the available wavelength options.

Order Information

Products			
DEV 7238	UHF/VHF Optribution Transmitter; 47...1006 MHz; SC/APC; 1550 nm		
Wavelength Options:			
	<u>Option</u>	<u>Wavelength</u>	<u>Option</u> <u>Wavelength</u>
	Lambda 0	1310 nm ±10 nm	Lambda 5 1550 nm ±10 nm (standard)
	Lambda 1	1470 nm ±10 nm	Lambda 6 1570 nm ±10 nm
	Lambda 2	1490 nm ±10 nm	Lambda 7 1590 nm ±10 nm
	Lambda 3	1510 nm ±10 nm	Lambda 8 1610 nm ±10 nm
	Lambda 4	1530 nm ±10 nm	
DEV 7338	Advanced UHF/VHF Optribution Receiver; 47...1006 MHz; SC/APC; with adjustable Gain and Slope		

Optical Connector Options	
Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector

Contact

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