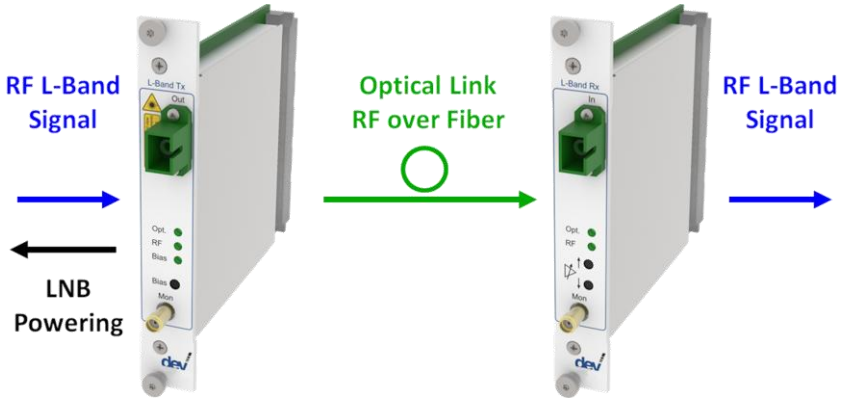
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Optribution DWDM L-Band Link
DEV 7251 & DEV 7333



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

Products:

DEV 7251	DWDM Optribution Transmitter; 850…2450 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization
DEV 7333	Top Performance Optribution Receiver; 850…2450 MHz; SC/APC; with adjustable Gain and Slope

Features:

- Recommended for RF-over-Fiber Links with optical Losses up to 25 dB
- Adjustable Rx and Tx Gain
- Continuous Optical Modulation Index Optimization
- Automatic OMI Optimization
- 49 DWDM Wavelengths
- RF Sensing with Status LED
- LNB Power with Current Monitoring and Status LED
- Push Buttons for Gain Control and LNB Power
- RF Monitor Ports
- Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

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Link Specifications DEV 7251 & DEV 7333

	Value	Condition
Frequency Range	850…2450 MHz	
Min. optical Link	8 dB	Attenuation required
Link Gain	41±3 dB	@ max. Tx & Rx gain
Adjustable Gain (Tx Module)	-32…+31 dB in 1 dB Steps	
Adjustable Gain (Rx Module)	0…15 dB ±0.5 dB in 1 dB Steps	
Adjustable Slope (Rx Module)	0…4 dB in 1 dB Steps	
Flatness	±1 dB ±0.25 dB	850…2450 MHz In any 36 MHz window
Return Loss	>16 dB, typ. 18 dB	
Gain Stability	±2 dB	0...+45 °C / 32…113 °F
Group Delay Distortion	<2 ns	Notes 3, 4
Nominal RF Input Level	-20 dBm	Aggregated power
Noise Figure	<17 dB	
CNR	66 dB	Notes 1, 2, 3, 4
Output IP3	>30 dBm	Notes 1, 4
OP1dB	>4 dBm	Notes 1, 4
Intermodulation Distortion	>43 dBc	@ 2 tones, -13 dBm each; Note 4
Input Power dynamic Range	-100…+15 dBm	Aggregated power
Dynamic Power Range Automatic OMI Optimization	 -23…+15 dBm	 Aggregated power
Damage RF Input Level	15 dBm	Aggregated power
Optical Budget	32 dB	@ nominal RF input level

Note 1: P_{in} = -33...+15 dBm
Note 2: 36 MHz window
Note 3: with back to back fiber connection (2 m) and minimum noise figure
Note 4: Tx in OMI mode, Rx gain 0 dB

Technical Data DEV 7251 & DEV 7333

	Value	Condition
Common Optical Specifications		
Fiber Type	Single Mode 9/125 µm	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Tx Specifications (DEV 7251)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Optical Power Output	10 mW / 10 dBm	
Available DWDM Wavelengths	(49 different Wavelengths)	Note 1
Channel Spacing	100 GHz	
Wavelength Stability	±100 pm	0...+45 °C / 32…113 °F
Power Consumption	15 V; 350 mA	Without LNB power
Weight	~0.5 kg	
Tx LNB Power & Current Monitoring		
LNB Power	15 V ±1 V; max. 350 mA	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
Rx Specifications (DEV 7333)		
Wavelength Range	1100…1650 nm	
Min. optical Input Level (optical Sensitivity)	>-15 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	15 V; 250 mA	
Weight	~0.3 kg	
Tx & Rx Monitor Port		
Impedance, Connector	50 Ohm, SMA (f)	
Return Loss	>18 dB typ.	
Insertion Loss / Flatness Monitor Port	= Input Level – 24 dB ±1 dB (Tx) = Output Level – 20 dB ±1 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 7251	DWDM Optribution Transmitter; 850…2450 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization

Wavelength Options:
(To order the product it is mandatory to specify one of the following wavelength options)

Option	Wavelength	Option	Wavelength	Option	Wavelength
CH 15	1565.50 nm	CH 32	1551.72 nm	CH 49	1538.19 nm
CH 16	1564.68 nm	CH 33	1550.92 nm	CH 50	1537.40 nm
CH 17	1563.86 nm	CH 34	1550.12 nm	CH 51	1536.61 nm
CH 18	1563.05 nm	CH 35	1549.32 nm	CH 52	1535.82 nm
CH 19	1562.23 nm	CH 36	1548.51 nm	CH 53	1535.04 nm
CH 20	1561.42 nm	CH 37	1547.72 nm	CH 54	1534.25 nm
CH 21	1560.61 nm	CH 38	1546.92 nm	CH 55	1533.47 nm
CH 22	1559.79 nm	CH 39	1546.12 nm	CH 56	1532.68 nm
CH 23	1558.98 nm	CH 40	1545.32 nm	CH 57	1531.90 nm
CH 24	1558.17 nm	CH 41	1544.53 nm	CH 58	1531.12 nm
CH 25	1557.36 nm	CH 42	1543.73 nm	CH 59	1530.33 nm
CH 26	1556.56 nm	CH 43	1542.94 nm	CH 60	1529.55 nm
CH 27	1555.75 nm	CH 44	1542.14 nm	CH 61	1528.77 nm
CH 28	1554.94 nm	CH 45	1541.35 nm	CH 62	1527.99 nm
CH 29	1554.13 nm	CH 46	1540.56 nm	CH 63	1527.22 nm
CH 30	1553.33 nm	CH 47	1539.77 nm		
CH 31	1552.52 nm	CH 48	1538.98 nm		

DEV 7333	Top Performance Optribution Receiver; 850…2450 MHz; SC/APC; with adjustable Gain and Slope

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

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