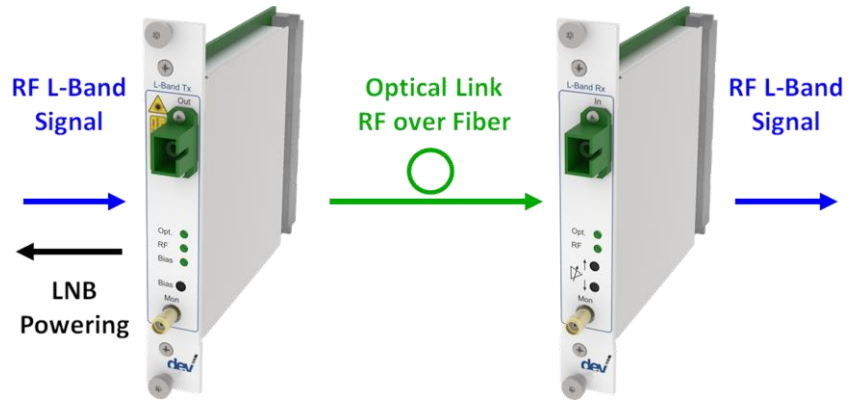


Optribution Top L-Band Link DEV 7233 & DEV 7333



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

Products:

- DEV 7233** Top Performance 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 20 dB
- ▀ Adjustable Rx and Tx Gain
- ▀ Continuous Optical Modulation Index Optimization
- ▀ RF Sensing with Status LED
- ▀ LNB Powering, switchable 13/18 V and 22 kHz Tone
- ▀ Push Buttons for Gain Control and LNB Power
- ▀ RF Monitor Ports
- ▀ 9 CWDM Wavelengths
- ▀ Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

Link Specifications DEV 7233 & DEV 7333

	Value	Condition
Frequency Range	850...2450 MHz	
Max. Link Gain	32±2 dB	
Adjustable Gain (Tx Module)	-20...+25 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	±1.5 dB ±0.15 dB	850...2450 MHz In any 36 MHz window
Return Loss	>14 dB, typ. 16 dB	
Gain Stability	±2 dB	0...+50 °C / 32...122 °F
Group Delay Distortion	<2 ns	Notes 2, 3
Nominal RF Input Level	-25 dBm	Aggregated power
Noise Figure	<10 dB	
SFDR _{2/3}	117 dB/Hz ^{2/3}	
CNR	65 dB	Notes 1, 2, 3
Output IP3	>31 dBm	
OP1dB	>11 dBm	
Intermodulation Distortion	>40 dBc	@ 2 tones, -13 dBm each
Input Power dynamic Range	-74...+15 dBm	Aggregated power
Dynamic Power Range		
Automatic OMI Optimization	-27...+15 dBm	Aggregated power
Damage RF Input Level	15 dBm	Aggregated power
Optical Budget	25 dB	@ nominal RF input level

Note 1: P_{in} = -15 dBm

Note 2: 36 MHz window

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

Technical Data DEV 7233 & DEV 7333

	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 7233)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Optical Power Output	2 mW / 3 dBm	
Available CWDM Wavelengths	(9 different Wavelengths)	Note 1
Power Consumption	12 V; 200 mA	Without LNB power
Weight	~0.5 kg	
Tx LNB Power & Current Monitoring		
LNB Power	Max. 350 mA	
Voltage and Tone Control	13 V, 18 V and 0 Hz, 22 kHz	
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)	<-22 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	12 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 \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 7233	Top Performance Optribution Transmitter; 850...2450 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization																								
Wavelength Options:																									
	<table border="1"> <thead> <tr> <th>Option</th> <th>Wavelength</th> <th>Option</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>Lambda 0</td> <td>1310 nm ±10 nm</td> <td>Lambda 5</td> <td>1550 nm ±10 nm (standard)</td> </tr> <tr> <td>Lambda 1</td> <td>1470 nm ±10 nm</td> <td>Lambda 6</td> <td>1570 nm ±10 nm</td> </tr> <tr> <td>Lambda 2</td> <td>1490 nm ±10 nm</td> <td>Lambda 7</td> <td>1590 nm ±10 nm</td> </tr> <tr> <td>Lambda 3</td> <td>1510 nm ±10 nm</td> <td>Lambda 8</td> <td>1610 nm ±10 nm</td> </tr> <tr> <td>Lambda 4</td> <td>1530 nm ±10 nm</td> <td></td> <td></td> </tr> </tbody> </table>	Option	Wavelength	Option	Wavelength	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		
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Optical Connector Options	
Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector

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