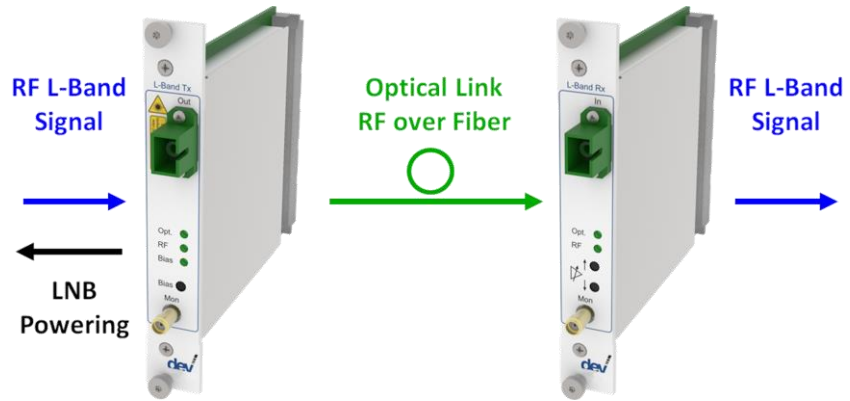


Optribution DWDM L-Band Link DEV 7251 & DEV 7333



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

Products:

- DEV 7251** DWDM Optribution Transmitter; 700...2300 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)

Link Specifications DEV 7251 & DEV 7333

	Value	Condition
Frequency Range	850...2300 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	±1.5 dB ±0.3 dB	850...2300 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 μ m	
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)	<-22 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

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DEV 7251	DWDM Optribution Transmitter; 700...2300 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization																																																																																																												
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Optical Connector Options	
Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector

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Technical specifications are subject to change