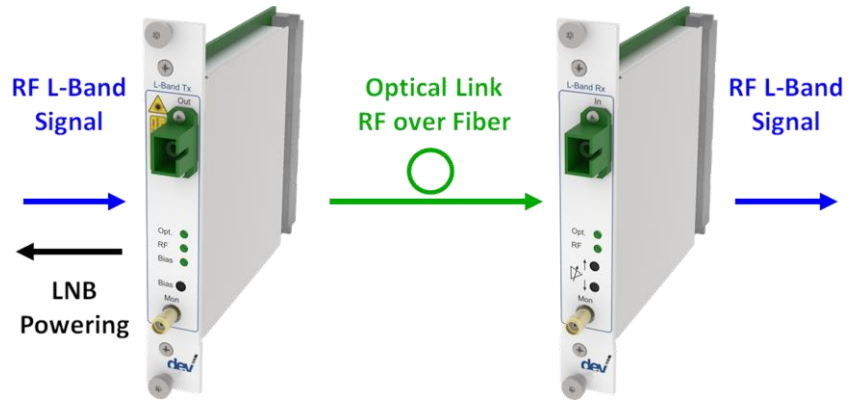


## Optribution Advanced L-Band Link DEV 7232 & DEV 7332



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

### Products:

- DEV 7232** Advanced Optribution Transmitter; 850...2450 MHz; 1550 nm; SC/APC; with Limiter Function
- DEV 7332** Advanced Optribution Receiver; 850...2450 MHz; SC/APC; with adjustable Gain

### Features:

- ▀ High Input Signal Handling
- ▀ Recommended for RF-over-Fiber Links with optical Losses up to 10 dB
- ▀ Adjustable Gain
- ▀ RF Sensing with Status LED
- ▀ LNB Power with Current Monitoring and Status LED
- ▀ Push Buttons for Gain Control and LNB Power
- ▀ RF Monitor Ports
- ▀ Available Wavelengths 1310nm and 1550nm
- ▀ Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

### Link Specifications DEV 7232 & DEV 7332

	Value	Condition
Frequency Range	850...2450 MHz	
Max. Link Gain	13±2 dB	
Adjustable Gain (Rx Module)	0...15 dB ±0.5 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	0 dBm	Aggregated power
Noise Figure	<30 dB	
SFDR <sub>2/3</sub>	109 dB/Hz <sup>2/3</sup>	
CNR	53 dB	Notes 1, 2, 3
Output IP3	>34 dBm	
OP1dB	>11 dBm	
Intermodulation Distortion	>40 dBc	@ 2 tones, -13 dBm each
Input Power dynamic Range	-50...+15 dBm	Aggregated power
Damage RF Input Level	15 dBm	Aggregated power
Optical Budget	25 dB	@ nominal RF input level

Note 1: P<sub>in</sub> = -15 dBm

Note 2: 36 MHz window

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

### Technical Data DEV 7232 & DEV 7332

	Value	Condition
<b>Common Optical Specifications</b>		
Fiber Type	Single Mode 9/125 $\mu$ m	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
<b>Tx Specifications (DEV 7232)</b>		
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 Wavelengths	1550 nm $\pm$ 10 nm (Standard) or 1310 nm $\pm$ 10 nm (Option)	
Power Consumption	15 V; 250 mA	Without LNB power
Weight	~0.5 kg	
<b>Tx LNB Power &amp; Current Monitoring</b>		
LNB Power	15 V $\pm$ 1 V; max. 350 mA	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
<b>Rx Specifications (DEV 7332)</b>		
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	
<b>Tx &amp; Rx Monitor Port</b>		
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)	
<b>Tx &amp; Rx RF Sensing</b>		
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	
<b>Tx &amp; Rx General Specification</b>		
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	

## Order Information

Products					
DEV 7232	Advanced Optribution Transmitter; 850...2450 MHz; 1550 nm; SC/APC; with Limiter Function				
Wavelength Option:					
	<table border="1"> <thead> <tr> <th>Option</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>Lambda 0</td> <td>1310 nm ±10 nm</td> </tr> </tbody> </table>	Option	Wavelength	Lambda 0	1310 nm ±10 nm
Option	Wavelength				
Lambda 0	1310 nm ±10 nm				
DEV 7332	Advanced Optribution Receiver; 850...2450 MHz; SC/APC; with adjustable Gain				

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

## Contact

DEV Systemtechnik GmbH  
 Grüner Weg 4A  
 61169 Friedberg  
 GERMANY  
 Phone: +49 6031 6975 100  
 Fax: +49 6031 6975 114  
 info@dev-systemtechnik.com  
 www.dev-systemtechnik.com

Rev. 13-Sep-2018

*Technical specifications are subject to change*