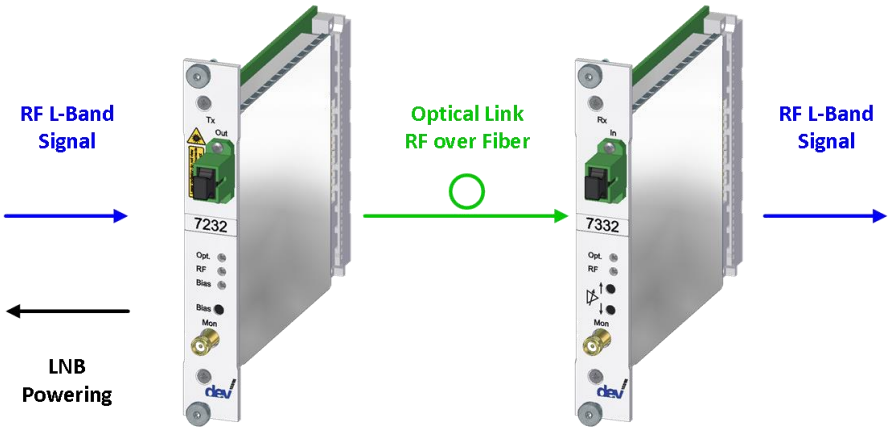
Optribution Advanced L-Band Link
DEV 7232 & DEV 7332



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 Powering, switchable 13/18 V and 22 kHz Tone
- 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)

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Link Specifications DEV 7232 & DEV 7332

	Value	Condition
Frequency Range	850…2450 MHz	
Max. Link Gain	5±2 dB	
Adjustable Gain (Rx Module)	0…5 dB ±0.5 dB in 1 dB Steps	
Flatness	±1.0 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	Note 2
Nominal RF Input Level	-20 dBm	Aggregated power
Noise Figure	<31 dB	
SFDR2/3	108 dB/Hz^{⅔}	
Output IP3	>21 dBm	Rx Module Gain 0 dB
OP1dB	>7 dBm	Rx Module Gain 0 dB
Input Power dynamic Range	-70…+10 dBm	Aggregated power
Damage RF Input Level	15 dBm	Aggregated power
Optical Budget	20 dB	Notes 1, 3

Note 1: Pin = -20 dBm aggregated power
Note 2: 36 MHz window
Note 3: CNR 15 dB minimum

Technical Data DEV 7232 & DEV 7332

	Value	Condition
Common Optical Specification s		
Fiber Type	Single Mode 9/125 µm	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Tx Specifications (DEV 7232)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Optical Power Output	3.5 mW / 5.4 dBm	
Available Wavelengths	1550 nm ±10 nm (Standard) or 1310 nm ±10 nm (Option)	
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 7332)		
Wavelength Range	1100…1650 nm	
Min. optical Input Level (optical Sensitivity)	<-15 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 – 26 dB ±2 dB (Tx) = Output Level – 26 dB ±2 dB (Rx)	
Tx & Rx RF Sensing		
Adjustable Threshold Level (THL)	0 dBm > THL > -50 dBm	
Threshold Level Accuracy	±3 dB	
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	

Order Information

Products	
DEV 7232	Advanced Optribution Transmitter; 850…2450 MHz; 1550 nm; SC/APC; with Limiter Function
Wavelength Option: 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

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