OPTRIBUTION
powered by DEV

dev

THE ART OF ENGINEERING

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)

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: Lambda 0 — Wavelength: 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. 11-Aug-2025

Disclaimer
The information contained herein is believed to be reliable. DEV Systemtechnik makes no warranties regarding the information contained herein. DEV Systemtechnik assumes no responsibility or liability whatsoever for any of the information and for the use of the information contained herein. The information contained herein is provided "AS IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders.