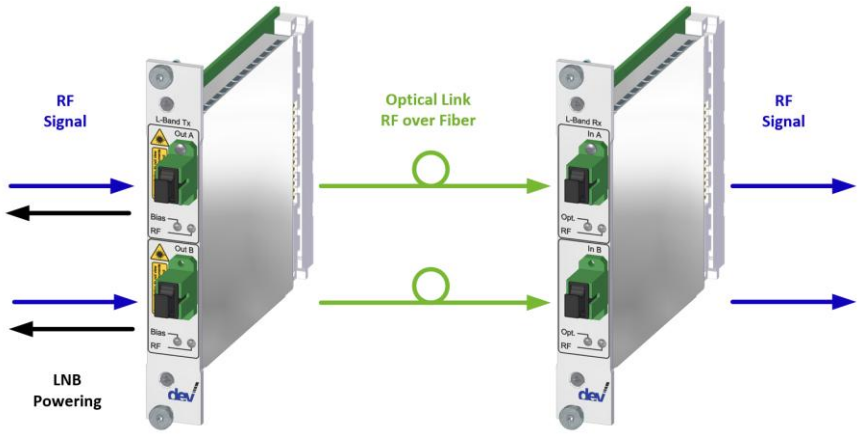
Optribution Basic Twin L-Band Link
DEV 7241 & DEV 7341



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

Products:	
DEV 7241	Basic Twin Optribution Transmitter; 850…2450 MHz; SC/APC
DEV 7341	Basic Twin Optribution Receiver; 850…2450 MHz; SC/APC

Features:

- Two Transmitters or Receivers per Module
- Recommended for RF-over-Fiber Links with optical Losses up to 10 dB
- Fixed Gain
- RF Sensing with Status LED
- LNB Powering, switchable 13/18 V and 22 kHz Tone
- Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

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Link Specifications DEV 7241 & DEV 7341

	Value	Condition
Frequency Range	850…2450 MHz	
Max. Link Gain	4±3 dB	
Adjustable Gain (Rx Module)	0…8 dB	Note 4
Flatness	±1.5 dB ±0.2 dB	850…2450 MHz In any 36 MHz window
Return Loss	min. 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	-10 dBm	Aggregated power
Noise Figure	<26 dB	
SFDR2/3	103 dB/Hz$^{2/3}$	
CNR	>56 dB	Notes 1, 2, 3
Output IP3	>7 dBm	
OP1dB	>-1 dBm	
Intermodulation Distortion	>40 dBc	@ 2 tones, -18 dBm each
Input Power dynamic Range	-45…-6 dBm	Aggregated power
Damage RF Input Level	12 dBm	Aggregated power

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
Note 4: adjustable gain with Option Plus, only

Technical Data DEV 7241 & DEV 7341

	Value	Condition
Common Optical Specifications		
Fiber Type	Single Mode 9/125 µm	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Tx Specifications (DEV 7241)		
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	
Power Consumption	12 V; 250 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 7341)		
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 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	

Order Information

Products	
DEV 7241	Basic Twin Optribution Transmitter; 850…2450 MHz; SC/APC
DEV 7341	Basic Twin Optribution Receiver; 850…2450 MHz; SC/APC

Option for DEV 7341	
Option Plus	Adjustable Gain

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

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