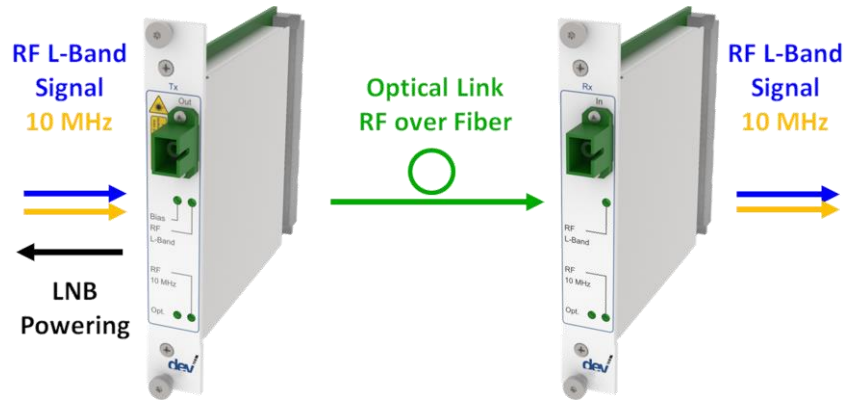


Optribution L-Band & 10 MHz Link DEV 7244 & DEV 7344



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

Products:

DEV 7244 Optribution Transmitter; 10 MHz, 700...2300 MHz; SC/APC; Single Input

DEV 7344 Optribution Receiver; 10 MHz, 700...2300 MHz; SC/APC; Single Output with adjustable Gain

Features:

- ▀ L-Band and 10 MHz Reference Signal over a single Fiber
- ▀ Recommended for RF-over-Fiber Links with optical Losses up to 10 dB
- ▀ Adjustable Gain for L-Band & 10 MHz Reference Signal
- ▀ RF Sensing with Status LED for L-Band & 10 MHz Reference Signal
- ▀ LNB Power with Current Monitoring and Status LED
- ▀ Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

Link Specifications DEV 7244 & DEV 7344

	Value	Condition
RF Specifications Reference		
Frequency Range	10 MHz	
Max. Link Gain	-4±2 dB	
Adjustable Gain (Rx Module)	0...15 dB ±0.5 dB in 1 dB Steps	
Return Loss	>14 dB, typ. 18 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	<20 dB	
OP1dB	13 dBm	
Damage RF Input Level	12 dBm	Aggregated power
RF Specifications L-Band		
Frequency Range	700...2300 MHz	
Max. Link Gain	-4±2 dB	
Adjustable Gain (Rx Module)	0...16 dB in 1 dB Steps	
Flatness	±1.5 dB ±0.2 dB	700...2300 MHz In any 36 MHz window
Return Loss	>14 dB, typ. 18 dB	
Gain Stability	±2 dB	0...+50 °C / 32...122 °F
Group Delay Distortion	<2 ns	
Nominal RF Input Level	-10 dBm	Aggregated power
Noise Figure	<28 dB, typ. 23 dB	
SFDR2/3	106 dB/Hz ^{2/3}	
CNR	63 dB	Notes 1, 2, 3
Output IP3	>16 dBm	
OP1dB	>0 dBm	
Intermodulation Distortion	>40 dBc	@ 2 Tones, -13 dBm each
Input Power dynamic Range	-60...0 dBm	Aggregated power
Damage RF Input Level	12 dBm	Aggregated power
Optical Budget	25 dB	@ nominal RF input level
Isolation	>60 dB	between 10 MHz and 700...2300 MHz

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

Technical Data DEV 7244 & DEV 7344

	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 7244)		
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	
Wavelengths	1550 nm \pm 10 nm 1310 nm \pm 10 nm	10 MHz 700...2300 MHz
Power Consumption	15 V; 400 mA	Without LNB power
Weight	~0.5 kg	
Tx LNB Power & Current Monitoring (with applied Option 35, only)		
LNB Power	15 V \pm 1 V; max. 350 mA	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
Rx Specifications (DEV 7344)		
Wavelength Range	1100...1650 nm	
Min. optical Input Level (optical Sensitivity)	<-22 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	15 V; 400 mA	
Weight	~0.3 kg	
Tx & Rx RF Sensing		
Adjustable Threshold Level (THL)	0 dBm > THL > -50 dBm	Note 1
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: The adjustable threshold level (THL) for the 10 MHz path of the DEV 7244 and of the DEV 7344 is:
+10 dBm > THL > -30 dBm

Order Information

Products	
DEV 7244	Optribution Transmitter; 10 MHz, 700...2300 MHz; SC/APC; Single Input
Option 35	Dual Inputs
DEV 7344	Optribution Receiver; 10 MHz, 700...2300 MHz; SC/APC; Single Output with adjustable Gain
Option 36	Dual Outputs

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

Contact

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Technical specifications are subject to change