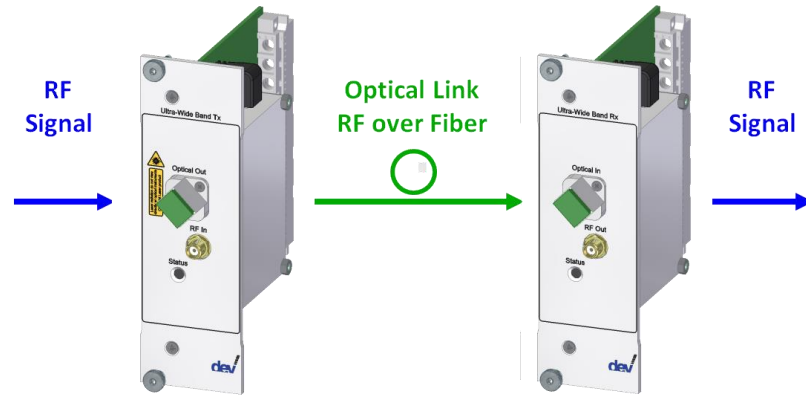


Optribution 6 GHz Link DEV 7234 & DEV 7334



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

Products:

DEV 7234 Ultra-Wideband Optribution Transmitter; 500 kHz...6 GHz;
50 Ohm, SMA (f); SC/APC

DEV 7334 Ultra-Wideband Optribution Receiver; 500 kHz...6 GHz;
SC/APC; 50 Ohm, SMA (f)

Features:

- ▀ Frequency Range 500 kHz...6 GHz
- ▀ Adjustable Tx and Rx Gain
- ▀ Wavelength 1310 nm (optional 1550 nm)
- ▀ Optical Connector Type SC/APC (optional FC/APC)

Link Specifications DEV 7234 & DEV 7334

	Value	Condition
Frequency Range	500 kHz...6 GHz	
Max. Link Gain	5 dB (LNA off) 35 dB (LNA on)	Note 1
Adjustable Gain (Tx Module)	-31.5...0 dB in 0.5 dB Steps	Note 2
Adjustable Gain (Rx Module)	-31.5...0 dB in 0.5 dB Steps	Note 2
Flatness	±3.0 dB ±2.0 dB ±0.25 dB	500 kHz...5 MHz 5 MHz...6 GHz In any 36 MHz window
Return Loss	>11 dB	
Uncorrected Gain Variation over Temperature	±3.5 dB	
Corrected Gain Variation over Temperature	±1 dB	Note 3
Corrected Gain Tracking between RFoF Links	±0.5 dB	Note 4
Group Delay Distortion	<2 ns	Notes 5, 6
Nominal RF Input Level	-10 dBm (LNA off) -40 dBm (LNA on)	Aggregated power
Noise Figure	27 dB (LNA off) 6.5 dB (LNA on)	Note 7
SFDR _{2/3}	105 dB/Hz ^{2/3} (LNA off) 99 dB/Hz ^{2/3} (LNA on)	Note 7
Output IP3	>18 dBm	
OP1dB	>5 dBm	
Damage RF Input Level	20 dBm	Aggregated power
Optical Budget	15 dB	@ nominal RF input level

Note 1: LNA on or LNA off can be selected via software.

Note 2: No Attenuation' is the default for Tx and Rx units. Attenuation values can be selected via software.

Note 3: Using internal temperature compensation algorithm selected via software.

Note 4: Using the Tx and/or Rx attenuators

Note 5: 36 MHz window

Note 6: with back to back fiber connection (2 m) and minimum noise figure

Note 7: Noise Figure and SFDR_{2/3} measured at 3 GHz, can be selected via 'LNA Off/ON' and Tx attenuator

Technical Data DEV 7234 & DEV 7334

	Value	Condition
Common Optical Specifications		
Fiber Type	(Single Mode 9/125 μm)	
Optical Connector	SC/APC or FC/APC	Standard is SC/APC
Tx Specifications (DEV 7234)		
Laser Type	(DFB)	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Optical Power in the Fiber	2.3 mW \pm 0.5 mW	
Available Wavelengths	1310 nm or 1550 nm	Standard is 1310 nm
Power Consumption	260 mA (LNA off) 385 mA (LNA on)	
Weight	~0.5 kg	
Rx Specifications (DEV 7334)		
Wavelength Range	1310...1550 nm	
Damage optical Input Level	10 dBm	
Power Consumption	12 V; 225 mA	
Weight	~0.5 kg	
Tx & Rx RF Specifications		
Impedance, Connector	50 Ohm, SMA (f)	
Tx & Rx General Specification		
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
Size	8 HP (40 mm) Width, 3 RU (133 mm) Height, 3.94" (100 mm) Depth	
Operating Temperature	-20...+70 $^{\circ}\text{C}$ (-4...+158 $^{\circ}\text{F}$)	
Storage Temperature	-40...+85 $^{\circ}\text{C}$ (-40...+185 $^{\circ}\text{F}$)	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Order Information

Products							
DEV 7234	Ultra-Wideband Optribution Transmitter; 500 kHz...6 GHz; 50 Ohm, SMA (f); SC/APC						
Wavelength Options:							
	<table border="1"> <thead> <tr> <th>Option</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>Lambda 0</td> <td>1310 nm (standard)</td> </tr> <tr> <td>Lambda 5</td> <td>1550 nm</td> </tr> </tbody> </table>	Option	Wavelength	Lambda 0	1310 nm (standard)	Lambda 5	1550 nm
Option	Wavelength						
Lambda 0	1310 nm (standard)						
Lambda 5	1550 nm						
DEV 7334	Ultra-Wideband Optribution Receiver; 500 kHz...6 GHz; SC/APC; 50 Ohm, SMA (f)						
Optical Connector Options							
Option 07	FC/APC Optical Connector						

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