

Desktop Optribution® Modules and Mounting Products



(Original Size)

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

THE ART OF ENGINEERING

Products:

DEV 7285	Desktop Optribution® Transmitter; 700...2300 MHz; LC/APC
DEV 7287	Desktop TV Optribution® Transmitter; 47...1006 MHz; LC/APC
DEV 7385	Desktop Optribution® Receiver; 700...2300 MHz; LC/APC
DEV 7387	Desktop TV Optribution® Receiver; 47...1006 MHz; LC/APC
DEV 7151	Wall Mount Chassis for Desktop Optribution® Modules; 4 Slots
DEV 68-0004	DIN Rail Bracket for two Desktop Optribution® Modules

Features:

- ▀ Standalone Optical Transmitter (Tx) Modules and Optical Receiver (Rx) Modules
- ▀ RF Monitoring Port
- ▀ LNB Powering, switchable 13/18 V and 0/22 kHz Tone (DEV 7285)
- ▀ Overtemperature Protection
- ▀ Different Mounting Products

Link Specifications DEV 7285 & DEV 7385

	Value	Condition
Frequency Range	700...2300 MHz	
Link Gain	0±3 dB	@ +25 °C / 77 °F
Flatness	±2.0 dB ±1.5 dB ±0.3 dB	700...2300 MHz 950...2150 MHz In any 36 MHz window @ 950...2150 MHz
Return Loss	>14 dB, typ. 16 dB	
Nominal RF Input Level	-10 dBm	Total power
Noise Figure	<31 dB	
SFDR2/3	102 dBc	Note 1
CNR	55 dB	Notes 1, 2, 3
Output IP3	15 dBm	
OP1dB	+2 dBm	
Intermodulation Distortion	>50 dBc	@ 2 tones, -13 dBm each
Input Power dynamic Range	-65...-6 dBm	Total power, Note 2
Damage RF Input Level	15 dBm	Total power
Optical Power Output	1.25 mW / 1 dBm	
Optical Budget	≤6 dB	Notes 1, 2

Note 1: $P_{in} = -13$ dBm

Note 2: 36 MHz window

Note 3: with back-to-back fiber connection (1 m)

Link Specifications DEV 7287 & DEV 7387

	Value	Condition
Frequency Range	47...1006 MHz	
Link Gain	11±3 dB	@ +25 °C / 77 °F
Flatness	±0.7 dB ±0.2 dB	47...1006 MHz In any 8 MHz window
Return Loss	>16 dB, typ. 20 dB	
Nominal RF Input Level	-20 dBm	Total power
Noise Figure	<25 dB	
Noise Floor	<-120 dBm/Hz	
SFDR2/3	102 dBc	Note 1
CNR	55 dB	Notes 1, 2, 3
Output IP3	16 dBm	
OP1dB	+3 dBm ±1 dB	
Intermodulation Distortion	>60 dBc	@ 2 tones, -20 dBm each, Note 4
Input Power dynamic Range	-58...-20 dBm	Total power, Notes 2, 5
Damage RF Input Level	15 dBm	Total power
Optical Power Output	1.6 mW / 2 dBm	
Optical Budget	≤20 dB	Notes 1, 2

Note 1: $P_{in} = -20$ dBm

Note 2: 8 MHz window

Note 3: with back-to-back fiber connection (1 m)

Note 4: with 3 dB optical loss

Note 5: minimum 10 dB CNR margin for 42 carrier

DEV 728x & DEV 738x Desktop Optribution® Modules

Technical Data	Value	Condition
Common Optical Specifications		
Fiber Type	Single Mode 9/125 μm	
Optical Connector	LC/APC or LC/PC	Standard is LC/APC
Tx Specifications (DEV 728x)		
Laser Type	DEV 7285: FP DEV 7287: DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	
Wavelength	1310 nm	
Impedance, Connectors	75 Ohm, precision F (f)	
Insertion Loss / Flatness Monitor Port	DEV 7285: = Input Level +1±3 dB DEV 7287: = Input Level +12±3 dB	
Power Consumption Module	12 V; 250 mA	Without LNB power (DEV 7285)
Tx LNB Power (DEV 7285)		
Voltage and Tone Control	13 V, 18 V and 0 Hz, 22 kHz	
LNB Power	max. 450 mA	
LNB Power on Indication	Via LED at the Front Panel	
Rx Specifications (DEV 738x)		
Wavelength Range	1260...1620 nm	
Impedance, Connectors	75 Ohm, precision F (f)	
Insertion Loss / Flatness Monitor Port	Output Level ±3 dB	
Power Consumption Module	12 V; 300 mA	
Tx & Rx Optical Monitor		
Optical Status Indication	Via LED at the Front Panel	
Tx & Rx External Power Supply		
Primary Voltage	100...240 V AC	
Power Consumption Power Supply	typ. <20 VA	
Tx & Rx General Specifications		
Size	5.43" (138 mm) Length, 1.65" (42 mm) Width, 0.9" (23 mm) Height	
Weight	~0.1 kg	
Operating Temperature	-20...+65 °C (-4...+150 °F) with Overtemperature Protection	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	



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DEV 7151 Wall Mount Chassis for Desktop Optribution® Modules

Technical Data	Value	Condition
Capacity		
Number of Modules	4 (max.)	
Power Supply		
Primary Voltage	100...240 V AC supplied by a single Line	
Number of Power Supplies	1 or 2	Standard is 1 power supply
Power Consumption	<60 VA (1 Power Supply) or <120 VA (2 Power Supplies)	
General Specifications		
Cable Glands	for 4 RF Lines and for 1 Optical Line, external Ø 0.2...0.41" (5...10.5 mm)	
Size	12.8" (324 mm) Width, 11.4" (289 mm) Height, 5.7" (145 mm) Depth	
Weight	~5 kg (empty Chassis)	
Operating Temperature	-20...+65 °C (-4...+150 °F) (avoid direct Exposure to Sunlight)	
Ingress Protection Rating	IP54	

DEV 68-0004 DIN Rail Bracket for two Desktop Optribution® Modules

Technical Data	Value	Condition
Capacity		
Number of Modules	2 (max.)	
General Specifications		
DIN Rail Type	DIN-EN 60715 TH35	
Size	1.97" (50 mm) Width, 5.71" (145 mm) Height, 0.45" (11.5 mm) Depth	without DIN Rail
Weight	~0.2 kg	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	



OPTRIBUTION®

Desktop Optribution® Modules and Mounting Products



Order Information

Desktop Optribution® Modules

A Desktop Optribution® module is delivered in a handy case, holding the module and a wall mount power supply with different interchangeable AC plugs.

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Optical Connector Option for all Desktop Optribution® modules:

Option 10	Change LC/APC to LC/PC Connector
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Mounting Products for Desktop Optribution® Modules

DEV 7151	Wall Mount Chassis for Desktop Optribution® Modules; 4 Slots
Option 16	Redundant Power Supply
DEV 68-0004	DIN Rail Bracket for two Desktop Optribution® Modules

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Rev. 21-Aug-2018

Technical specifications are subject to change