

DEV 7251/7333

OPTRIBUTION DWDM L-BAND LINK

- Empfohlen für RF-over-Fiber Links mit optischen Verlusten bis zu 25 dB
- Einstellbare Rx- und Tx-Verstärkung
- Durchgehende „Optical Modulation Index“ Optimierung
- Automatische OMI Optimierung
- 49 DWDM Wellenlängen
- HF-Erkennung mit Status LED
- LNB Power Strom-Überwachung und Status LED
- Verstärkung und LNB-Leistung über Tasten einstellbar
- HF-Monitor Ports
- Optische Anschlüsse: SC/APC (optional FC/APC oder E2000 HRL)



LINK SPEZIFIKATIONEN

DEV 7251 & DEV 7333	VALUE	CONDITION
Frequency Range	850...2300 MHz	
Min. optical Link	8 dB	Attenuation required
Link Gain	45±3 dB	@ max. Tx & Rx gain
Adjustable Gain (Tx Module)	-32...+31 dB in 1 dB Steps	
Adjustable Gain (Rx Module)	0...16 dB in 1 dB Steps	
Adjustable Slope (Rx Module)	0...4 dB in 1 dB Steps	
Flatness	±1.5 dB ±0.3 dB	850...2300 MHz In any 36 MHz window
Return Loss	>16 dB, typ. 18 dB	
Gain Stability	±2 dB	0...+45 °C / 32...113 °F
Group Delay Distortion	<2 ns	
Nominal RF Input Level	-20 dBm	Total power
Noise Figure	17 dB	
CNR	66 dB	Notes 1, 2, 3, 4
Output IP3	30 dBm	Notes 1, 4
OP1dB	4 dBm	Notes 1, 4
Intermodulation Distortion	>43 dBc	@ 2 tones, -13 dBm each; Note 4
Input Power dynamic Range	-100...+15 dBm	Total power
Dynamic Power Range Automatic OMI Optimization	-23...+15 dBm	Total power
Damage RF Input Level	15 dBm	Total power
Maximum allowable optical Losses	32 dB	

Note 1: Pin = -33...+15 dBm

Note 2: 36 MHz window

Note 3: with back to back fiber connection (2 m) and minimum noise figure

Note 4: Tx in OMI mode, Rx gain 0 dB

TECHNISCHE DATEN DEV 7251 & DEV 7333

COMMON OPTICAL SPECIFICATIONS	VALUE	CONDITION
Fiber Type	Single Mode 9/125 µm	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
TX SPECIFICATIONS (DEV 7251)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	

Optical Power Output	10 mW / 10 dBm	
Available DWDM Wavelengths	(49 different Wavelengths)	Note 1
Channel Spacing	100 GHz	
Wavelength Stability	±100 pm	0...+45 °C / 32...113 °F
Power Consumption	15 V; 350 mA	Without LNB power
Weight	~0.5 kg	
TX LNB POWER & CURRENT MONITORING		
LNB Power	18+0/-3 V; max. 500 mA	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
RX SPECIFICATIONS (DEV 7333)		
Wavelength Range	1100...1650 nm	
Min. optical Input Level (optical Sensitivity)	-22 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	15 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 – 24 dB ±1 dB (Tx) = Output Level – 20 dB ±1 dB (Rx)	
TX & RX RF SENSING		
Adjustable Threshold Level (THL)	0 dBm > THL > -50 dBm	
Threshold Level Accuracy	±3 dB	
Threshold Repeatability	<0.5 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: Please refer to the Order Information section for the available wavelength options.

BESTELLINFORMATIONEN

PRODUCT																											
DEV 7251	DWDM Optribution® Transmitter; 700...2300 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization																										
	Wavelength Options: <table><tr><th><u>Option Wavelength</u></th><th><u>Option Wavelength</u></th><th><u>Option Wavelength</u></th></tr><tr><td>CH 15 1565.50 nm</td><td>CH 32 1551.72 nm</td><td>CH 49 1538.19 nm</td></tr><tr><td>CH 16 1564.68 nm</td><td>CH 33 1550.92 nm</td><td>CH 50 1537.40 nm</td></tr><tr><td>CH 17 1563.86 nm</td><td>CH 34 1550.12 nm</td><td>CH 51 1536.61 nm</td></tr><tr><td>CH 18 1563.05 nm</td><td>CH 35 1549.32 nm</td><td>CH 52 1535.82 nm</td></tr><tr><td>CH 19 1562.23 nm</td><td>CH 36 1548.51 nm</td><td>CH 53 1535.04 nm</td></tr><tr><td>CH 20 1561.42 nm</td><td>CH 37 1547.72 nm</td><td>CH 54 1534.25 nm</td></tr><tr><td>CH 21 1560.61 nm</td><td>CH 38 1546.92 nm</td><td>CH 55 1533.47 nm</td></tr></table>			<u>Option Wavelength</u>	<u>Option Wavelength</u>	<u>Option Wavelength</u>	CH 15 1565.50 nm	CH 32 1551.72 nm	CH 49 1538.19 nm	CH 16 1564.68 nm	CH 33 1550.92 nm	CH 50 1537.40 nm	CH 17 1563.86 nm	CH 34 1550.12 nm	CH 51 1536.61 nm	CH 18 1563.05 nm	CH 35 1549.32 nm	CH 52 1535.82 nm	CH 19 1562.23 nm	CH 36 1548.51 nm	CH 53 1535.04 nm	CH 20 1561.42 nm	CH 37 1547.72 nm	CH 54 1534.25 nm	CH 21 1560.61 nm	CH 38 1546.92 nm	CH 55 1533.47 nm
<u>Option Wavelength</u>	<u>Option Wavelength</u>	<u>Option Wavelength</u>																									
CH 15 1565.50 nm	CH 32 1551.72 nm	CH 49 1538.19 nm																									
CH 16 1564.68 nm	CH 33 1550.92 nm	CH 50 1537.40 nm																									
CH 17 1563.86 nm	CH 34 1550.12 nm	CH 51 1536.61 nm																									
CH 18 1563.05 nm	CH 35 1549.32 nm	CH 52 1535.82 nm																									
CH 19 1562.23 nm	CH 36 1548.51 nm	CH 53 1535.04 nm																									
CH 20 1561.42 nm	CH 37 1547.72 nm	CH 54 1534.25 nm																									
CH 21 1560.61 nm	CH 38 1546.92 nm	CH 55 1533.47 nm																									

	CH 22 1559.79 nm CH 23 1558.98 nm CH 24 1558.17 nm CH 25 1557.36 nm CH 26 1556.56 nm CH 27 1555.75 nm CH 28 1554.94 nm CH 29 1554.13 nm CH 30 1553.33 nm CH 31 1552.52 nm	CH 39 1546.12 nm CH 40 1545.32 nm CH 41 1544.53 nm CH 42 1543.73 nm CH 43 1542.94 nm CH 44 1542.14 nm CH 45 1541.35 nm CH 46 1540.56 nm CH 47 1539.77 nm CH 48 1538.98 nm	CH 56 1532.68 nm CH 57 1531.90 nm CH 58 1531.12 nm CH 59 1530.33 nm CH 60 1529.55 nm CH 61 1528.77 nm CH 62 1527.99 nm CH 63 1527.22 nm
DEV 7333	Top Performance Optribution® Receiver; 850...2450 MHz; SC/APC; with adjustable Gain and Slope		
OPTICAL CONNECTOR OPTIONS			
Option 07	FC/APC Optical Connector		
Option 08	E2000/HRL Optical Connector		