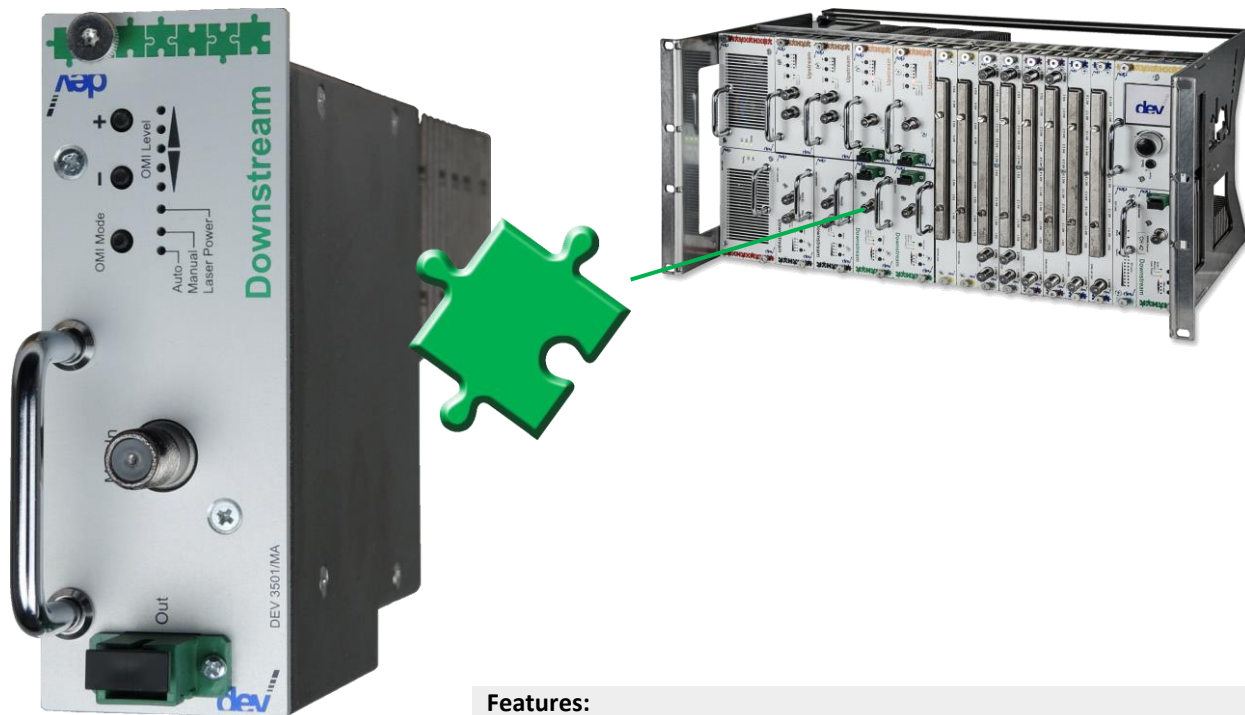
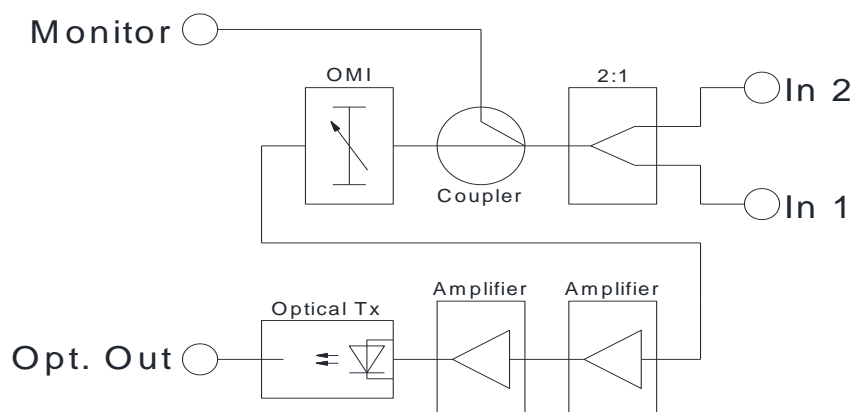


DEV 3501/MA - MODULO Optical Downstream Transmitter



Features:

- ▀ Module 2.5 RU; 2 Slots
- ▀ Direct Modulated Laser
- ▀ MGC and AGC for an optimized OMI
- ▀ 2 RF Inputs at the Rear
- ▀ Optical Output at the Front
- ▀ Monitor Port at the Front
- ▀ Local Control of OMI Level
- ▀ 1310 nm
- ▀ Optical Output Power 7, 10, or 13 dBm



Technical Data DEV 3501/MA

	Value	Condition
Optical Specification		
Laser Type	Cooled DFB	
Wavelength	1310±10 nm	
Optical Output Power	7 dBm, 10 dBm, or 13 dBm	Other on Request
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
RIN	155 dBc/Hz	
RF Specification		
Frequency Range	47...1218 MHz	
Impedance	75 Ohm	
Connectors	F (f)	
OMI Dynamic Range	15.5 dB	Note 1
Damage Composite Input Level	130 dBμV 106 dBμV	@ minimum gain @ maximum gain
Maximum Composite Input Level	104 dBμV	Note 1
Minimum Composite Input Level	89 dBμV	Note 1
Flatness	≤1.5 dB ≤0.2 dB	47 ...1218 MHz, Note 2 In any 8 MHz window, Note 2
Return Loss (all Ports)	>20 dB >18 dB	47 ...1006 MHz 1006 ...1218 MHz
Input Monitor Port	-20±1 dB	Note 2
Flatness Monitor Port	≤2 dB	Note 2
CTB	≥66 dBc	Notes 1, 2, 3
CSO	≥65 dBc	Notes 1, 2, 3
CNR	≥51 dB	Notes 1, 2, 3
BER	≤10 ⁻⁹	Notes 2, 4, 5
Input Port Isolation	≥30 dB	Note 2
General Specification		
Operating Voltage	24 VDC	
Power Consumption	≤11 W ≤13 W	25 °C (77 °F) 50 °C (122 °F)
Size	1.57" (40 mm) Width, 2.5 RU (110 mm) Height, 8.86" (225 mm) Depth	
Weight	~1.6 kg	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	
Operating Temperature	0...50 °C (32...122 °F)	
Storage Temperature	-40...+70 °C (-40...+158 °F)	
Storage Humidity	5...95 %	Non-condensing
Noise Immunity & Radiated Disturbance	EN 50083-2	

Note 1: Unmodulated CENELEC 42, 73...88 dBμV/channel or composite 89...104 dBμV

Note 2: Unused ports terminated with 75 Ohms

Note 3: Optical fiber 10 km, light level at receiver 1 dBm

Note 4: 116 * QAM 256 channels, optical fiber 10 km, light level at receiver 1 dBm

Note 5: 116 * QAM 256 channels, optical fiber 50 km, light level at receiver -6 dBm

Order Information

Products	
DEV 3501/MA/1310-7	MODULO Optical Downstream Transmitter, 1310 nm, 7 dBm (APC); 47...1218 MHz; 75 Ohm, F (f) - SC/APC; 2 Inputs, Monitor Port, MGC and AGC, 2.5 RU
DEV 3501/MA/1310-10	MODULO Optical Downstream Transmitter, 1310 nm, 10 dBm (APC); 47...1218 MHz; 75 Ohm, F (f) - SC/APC; 2 Inputs, Monitor Port, MGC and AGC, 2.5 RU
DEV 3501/MA/1310-13	MODULO Optical Downstream Transmitter, 1310 nm, 13 dBm (APC); 47...1218 MHz; 75 Ohm, F (f) - SC/APC; 2 Inputs, Monitor Port, MGC and AGC, 2.5 RU

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