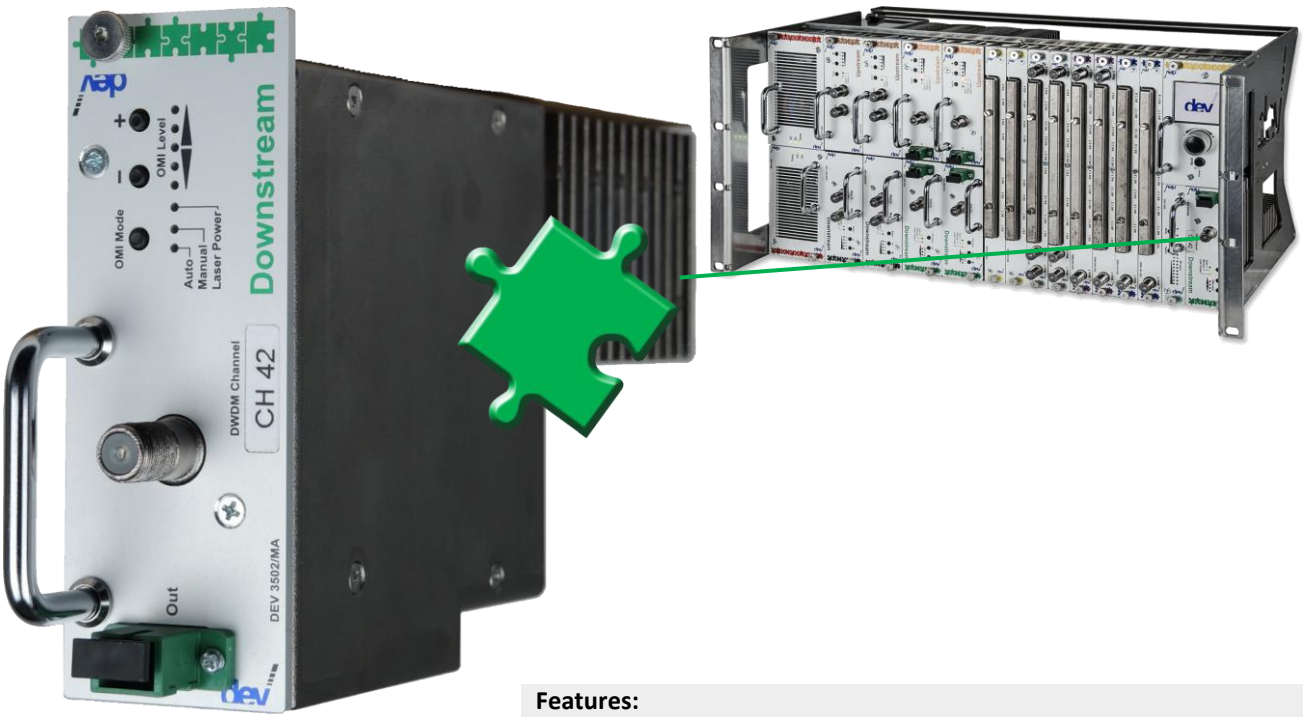
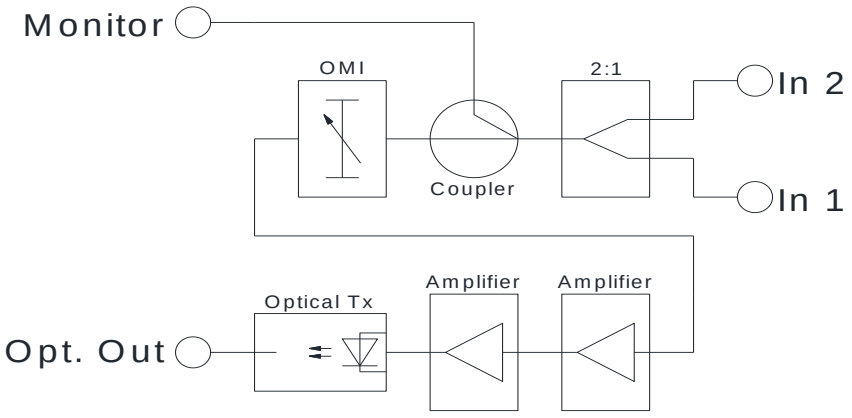
DEV 3502/MA - MODULO Optical DWDM Downstream Transmitter



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
- 49 DWDM Wavelengths
- Optical Output Power 7 or 10 dBm



Technical Data DEV 3502/MA

	Value	Condition
Optical Specification		
Laser Type	Cooled DFB	
Wavelength	CH15…CH63	Note 1
Optical Output Power	7 dBm or 10 dBm	
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	
Damage Composite Input Level	130 dBµV 106 dBµV	@ minimum gain @ maximum gain
Maximum Composite Input Level	104 dBµV	Higher power levels on request, Note 2
Minimum Composite Input Level	89 dBµV	
Flatness	≤1.5 dB ≤0.2 dB	47 …1218 MHz, Note 3 In any 8 MHz window, Note 3
Return Loss (all Ports)	>20 dB >18 dB	47 …1006 MHz 1006 …1218 MHz
Input Monitor Port	-20±1 dB	Note 3
Flatness Monitor Port	≤2 dB	Note 3
CTB	≥66 dBc	Notes 2, 3, 4
CSO	≥66 dBc	Notes 2, 3, 4
CNR	≥51 dB	Notes 2, 3
BER	$\leq 10^{-9}$	Notes 2, 3, 5
Input Port Isolation	≥30 dB	Note 3
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: Please refer to the Order Information section for details on the available DWDM wavelengths
Note 2: 30 * PAL-7 channels up to 550 MHz and 42 * QAM 256 channels above 550 MHz, analog channels at 89 dBµV/Ch and QAM channels at 85 dBµV/Ch, total composite input power 104 dBµV, optical fiber 10 km, light level at receiver 2 dBm
Note 3: Unused ports terminated with 75 Ohms
Note 4: To measure CTB and CSO performance 30 * PAL-7 channels in Note 2 are replaced by 30 * CW signals
Note 5: 70 * QAM 256 channels, optical fiber 50 km, light level at receiver 0 dBm

Order Information

Product	
DEV 3502/MA	MODULO Optical DWDM Downstream Transmitter; 47...1218 MHz; 75 Ohm, F (f) - SC/APC; 2 Inputs, Monitor Port, MGC and AGC, 2.5 RU

Wavelength and Output Power Options

To order the product it is mandatory to define the wavelength and the output power.
Please specify wavelength (CH**xx**) and output power (**yy**):

CH**xx**:	Channel	Wavelength	Channel	Wavelength	Channel	Wavelength
	CH15	1565.50 nm	CH32	1551.72 nm	CH49	1538.19 nm
	CH16	1564.68 nm	CH33	1550.92 nm	CH50	1537.40 nm
	CH17	1563.86 nm	CH34	1550.12 nm	CH51	1536.61 nm
	CH18	1563.05 nm	CH35	1549.32 nm	CH52	1535.82 nm
	CH19	1562.23 nm	CH36	1548.51 nm	CH53	1535.04 nm
	CH20	1561.42 nm	CH37	1547.72 nm	CH54	1534.25 nm
	CH21	1560.61 nm	CH38	1546.92 nm	CH55	1533.47 nm
	CH22	1559.79 nm	CH39	1546.12 nm	CH56	1532.68 nm
	CH23	1558.98 nm	CH40	1545.32 nm	CH57	1531.90 nm
	CH24	1558.17 nm	CH41	1544.53 nm	CH58	1531.12 nm
	CH25	1557.36 nm	CH42	1543.73 nm	CH59	1530.33 nm
	CH26	1556.56 nm	CH43	1542.94 nm	CH60	1529.55 nm
	CH27	1555.75 nm	CH44	1542.14 nm	CH61	1528.77 nm
	CH28	1554.94 nm	CH45	1541.35 nm	CH62	1527.99 nm
	CH29	1554.13 nm	CH46	1540.56 nm	CH63	1527.22 nm
	CH30	1553.33 nm	CH47	1539.77 nm		
	CH31	1552.52 nm	CH48	1538.98 nm		
yy:	Value	Output Power	Value	Output Power		
	07	7 dBm	10	10 dBm		

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

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Technical specifications are subject to change