DATASHEET

EON-OMP-OCM

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INDEX

1 DESCRIPTION

1.1 Product Function

The EON-OMP-OCM Interface card measures the optical spectrum, channel power, channel wavelength, channel OSNR, and total power on the monitored fibre. The module uses a tunable optical filter to de-multiplex and monitor 1529nm-1561nm, 100/50 GHz spaced optical channels.

1.2 Product Applications:

- Compatible with Prolabs' EON-OMP-2/EON-OMP-5 monitoring platforms
- DWDM system error detection
- DWDM system degraded aging test

2 OPTIC AND ELECTRIC SPECIFICATION

NO.	PARAMETER	SPECIFICATION			UNITS	NOTE
		Min	Typical	Max		
2.1	Channel spacing		50/100	-	GHz	
2.2	Wavelength range	1528		1568	nm	Extended C-band
2.3	Supported Signal Rate		10G		bits/s	
2.4	Absolute wavelength accuracy			+/- 50	pm	
2.5	Channel power range	-40		-10	dBm	
2.6	Absolute power accuracy			+/- 0.8	dB	
2.7	Relative power accuracy			1	dB	
2.8	Power resolution		0.1		dB	
2.9	Adjacent channel power divergence			6	dB	
2.10	Non-Adjacent channel power divergence			10	dB	
2.11	OSNR Range			25	dB	
2.12	OSNR accuracy			+/-2	dB	OSNR>20dB
				+/- 1.5	dB	OSNR<=20dB
2.13	Scan time			1000	ms	

3 OPERATING/STORAGE TEMPERATURE AND HUMIDITY

NO.	PARAMETER	SPECIFICATION	UNITS
3.1	Operating Temperature	-10～65	°C
3.2	Operating Humidity	5～95	%RH
3.3	Storage Temperature	-40～85	°C
3.4	Storage Humidity	5~95	%RH

4 EON-OMP-OCM FRONT PANEL

There are 2 LED indicators on the EON-OMP-OCM front panel:

NO.	PARAMETER	STATUS	DESCRIPTION
1	ALM	Red	Indicate an Alarm Condition
		Off	The card is functioning normally
2	ACK	Flashing Green	The card is functioning normally
		Off	The card is functioning normally

There is an Optical interface on the panel of the OCM unit, and defined as below:

1	MON	LC/UPC	MONITOR

5 MECHANICAL DRAWINGS

EON-OMP-OCM Mechanical Size：L × W × H = 213mm × 154.5mm × 40.4mm

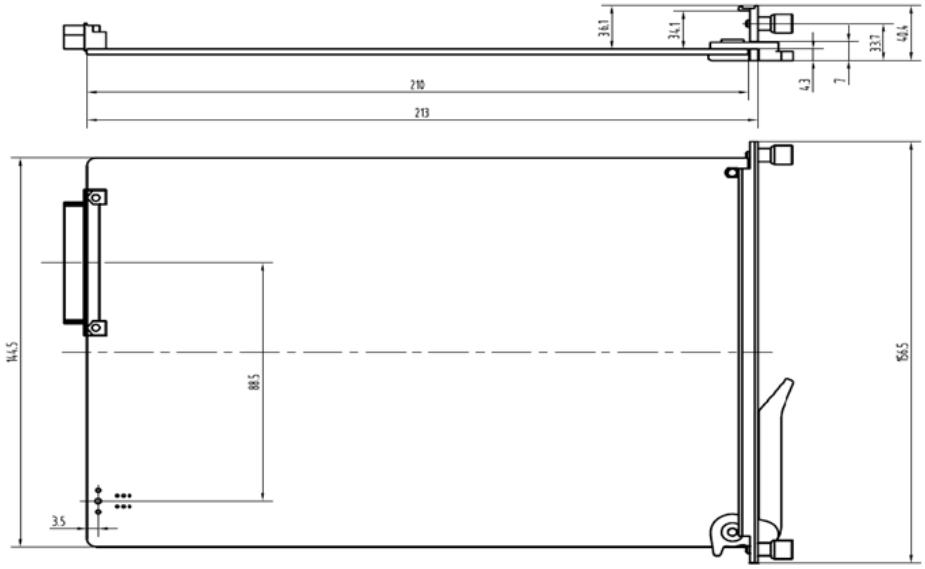


Figure 1 - EON-OMP-OCM - Mechanical structure diagram

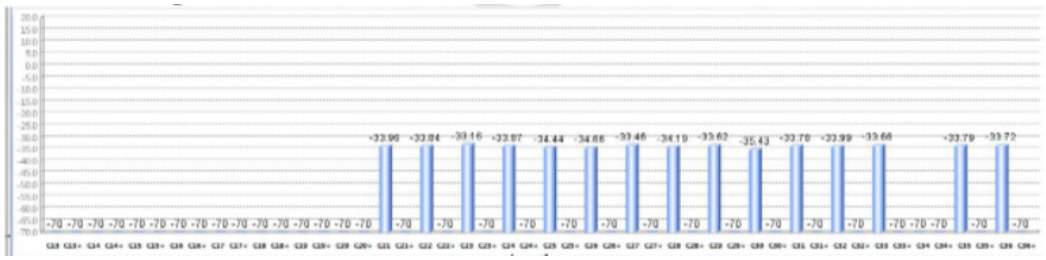
6 PRODUCT APPEARANCE AND MATERIAL

Figure 2 – EON-OMP-OCM front panel schematic

7 SAMPLE WAVELENGTH OUTPUTS

Monitoring results:

- Central wavelength, Total power, Ch. Power, and OSNR
- Users can config a Customer Tag for each wavelength
- Independent alarm threshold/processing for each wavelength



58	StandardWaveLen	1551.72/C3	nm	ActualWaveLen	1551.73	nm	Power	-33.87	dBm
59	StandardWaveLen	1552.12/C3	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
60	StandardWaveLen	1552.53/C3	nm	ActualWaveLen	1552.51	nm	Power	-33.79	dBm
61	StandardWaveLen	1552.92/C3	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
62	StandardWaveLen	1553.32/C3	nm	ActualWaveLen	1553.31	nm	Power	-35.32	dBm
63	StandardWaveLen	1553.74/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
64	StandardWaveLen	1554.14/C2	nm	ActualWaveLen	1554.11	nm	Power	-33.58	dBm
65	StandardWaveLen	1554.54/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
66	StandardWaveLen	1554.94/C2	nm	ActualWaveLen	1554.93	nm	Power	-34.20	dBm
67	StandardWaveLen	1555.34/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
68	StandardWaveLen	1555.74/C2	nm	ActualWaveLen	1555.74	nm	Power	-33.59	dBm
69	StandardWaveLen	1556.16/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
70	StandardWaveLen	1556.56/C2	nm	ActualWaveLen	1556.54	nm	Power	-34.64	dBm
71	StandardWaveLen	1556.96/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
72	StandardWaveLen	1557.36/C2	nm	ActualWaveLen	1557.35	nm	Power	-34.41	dBm
73	StandardWaveLen	1557.78/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
74	StandardWaveLen	1558.18/C2	nm	ActualWaveLen	1558.16	nm	Power	-33.75	dBm
75	StandardWaveLen	1558.59/C2	nm	ActualWaveLen	N/A	nm	Power	N/A	dBm
76	StandardWaveLen	1558.98/C2	nm	ActualWaveLen	1558.97	nm	Power	-33.00	dBm

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