

CTX Series

OCM

Optical Channel Monitoring, 2/4/6/8-port

Main Features

- Modulation Format Independent
- Support full C-band 50GHz/100GHz ITU.Grid
- Flex BW: 37.5+Nx12.5 GHz
- Integrates 1:2/1:4/1:6/1:8 MENS switch
- Up to 2/4/6/8-port OCM
- Support SNMP, GUI NMS Danriver iCEO B/S

Description

OCM are based on a high-speed scanning filter design with high resolution for flexible-spectrum applications. It is offered in 4/8-port configurations. Multiport versions are able to Scan in turn for ultrafine network channel power control. High-resolution filter design is a key to high adjacent-channel accuracy and superchannel carrier discrimination and power monitoring. Finally, for fully flexible spectrum monitoring, the OCM card report spectral power over any user-specified spectral range or provide continuous spectral density across the full C-band spectrum.

The OCM card measures the optical power, frequency and OSNR of the optical channels in the fiber, that enables the user to monitor these features of each fiber and shows a full, accurate and detailed picture of the wavelengths used in the fiber. It's ideal for embedded DWDM monitoring for ROADM/OADM multi-haul and third-party wavelengths applications.

The OCM card can perform full non-disruptive monitoring and analysis of the DWDM network, The solution provides accurate visibility of the fiber characterization and operating wavelengths for optimizing network performance and saving network managers time and OPEX expenses associated with identifying and repairing faults.



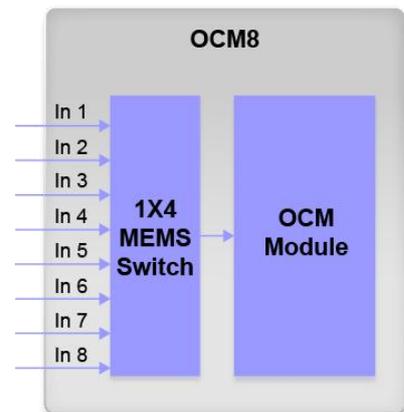
Figure 1:OCM Board

Benefits

- Power monitoring for all channels.
- In-service detection of fiber tap, Non-intrusive
- Monitoring up to 8 fibers simultaneously by the OCM
- Controlled using iCEO NMS

Applications

- In service measurements for DWDM networks
- ROADM/OADM/VMUX equalization
- Smart EDFA & RAMAN gain equalization
- Remote power monitoring & control



Technical Specifications

Parameter	Min	Max	Condition	
Operating Frequency Range(THz)	191.3	196.1	50GHz channels spacing. L-band: 88 channels maximum	
Channel Spacing	Configurable			
Maximum Number of Channels	-	96		
Bit Rates(Gb/s)	2.5/10/40/100/400/1000 Flex-BW			
Modulation Format Independence (RZ, NRZ, ODB, NRZ-DPSK, RZ-DQPSK, DP-QPSK, OFDM, Nyquist)	Yes		Power measured in 37.5 GHz bandwidth	
Input Signal Power Range(dBm)	-40	-10		
Total Input Power(dBm)	-	7		
OSNR Range (RBW 0.1 nm)(dB)	13	-		
Scan update period(ms)	-	500		
Absolute Power Accuracy(dB)	-	± 1.0		
Absolute Total Power Accuracy(dB)	-	± 1.0		
Relative Power Accuracy(dB)	-	1		
Absolute Frequency Accuracy(GHz)	-	± 12.5		
PDL(dB)	-	± 0.15		
Optical Return Loss(dB)	30	-		
Port				
Number of Inputs	2/4/6/8			
Performance Monitoring				
Wavelength	Channel number/Frequency			
Optical Power	Channel power, Total power			
OSNR	OSNR value			
Physical feature				
Dimensions(HxWxD mm)	20x192x223			
Weight (kg)	0.3			
Package options	Plug-in Card			
Platform	CTX6600 I/II/V			
Slot assignment	1 slot			
Connector	LC			
Environment				
Operating Temperature	-5°C to 50°C			
Storage	-20°C to 85°C			
Humidity	5% ~ 85% RH non-condensing			
Power Supply				
Power Input	DC -48V input from backplane			
Power Consumption	< 20			
Compliance				
Standards	FCC,RoHS 5/6			

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Danriver for more details.
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