

VMUX

DWDM Multiplexer with VOA array

Main Features

- Flat-top thermal AWG
- C-Band (EVEN/ODD)
- DWDM Grid spacing 100GHz/50GHz
- Up to 40/80 wavelengths
- Built-in VOA array for Optical power equalization
- Integrates PD
- Power monitoring on common Output
- Optional OCM port for Power monitoring over all channels
- Support SNMP, GUI NMS Danriver iCEO B/S

Description

The VMUX plug-in card provides DWDM MUX and VOA functionality, which occupies 2 slots in size for the CTX6600 platform.

It offers wavelength Multiplexer capabilities suitable for mesh, ring, linear add/drop, core and edge DWDM network topologies, the VMUX card supports 50GHz grid and 100GHz grid .

The user configures manually it and it automatically equalizes and balances the power of the added and bypassed wavelengths when it can be combined with OCM card.



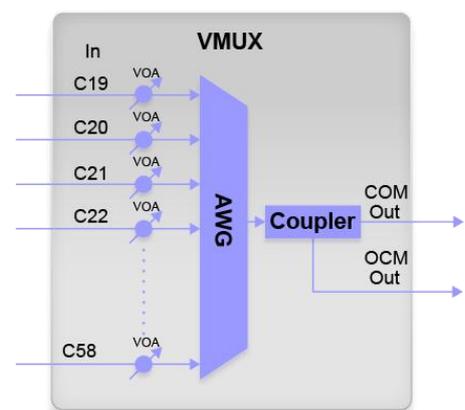
Figure 1: VMUX Board

Benefits

- Power monitoring for all channels and automatic power balancing
- Remotely Tune optical power level per wavelength by Network management

Applications

- MUX DWDM Systems for power adjustment
- OTM, OA, OADM(Add, drop and pass-through) at DWDM system network nodes
- Wavelength power balancer in amplified links



Technical Specifications

Parameter	Min	Max	Condition
Frequency (THz)	196.00	191.30	
Number of Channels	16/32/40/48		Customizable C19-C58, C-band EVEN, C-band Odd optional
Channel Spacing(GHz)	100/50		
Insertion Loss(dB)		7.0	
Insertion Loss Uniformity(dB)		1.2	
PMD(ps)		0.5	
Chromatic Dispersion(ps/nm)	-20	20	
Return Loss(dB)	40		
Attenuation Range(dB)	0	15	
Attenuation Accuracy(dB)		+/-0.8 +/-1.2	Over 0~1dB attenuation range Over 10~15dB attenuation range
VOA Response Time(ms)		10ms	Open loop for each channel,Excluding communication lag
Power Off Status(dB)	10		
Power level@Common Port(dBm)		24	Optical Power Handling
Power level@Channel power(dBm)		24	Optical Power Handling
Port			
Input port	C19,C20,C21...C58		Input port
COM port	COM		Output port
OCM port	OCM Out		For Optical Channel Monitoring
Optical power monitoring	Optional		PD Integrated
Performance Monitoring			
Optical power	OCM for input direction		
Physical feature			
Dimensions(HxWxD mm)	20x192x223		
Weight (kg)	0.3		
Package options	Plug-in Card		
Platform	CTX6600 I/II/V		
Slot assignment	2 adjacent slots vertically		
Connector	LC		
Environment			
Operating Temperature	-5°C to 50°C		
Storage	-20°C to 70°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		