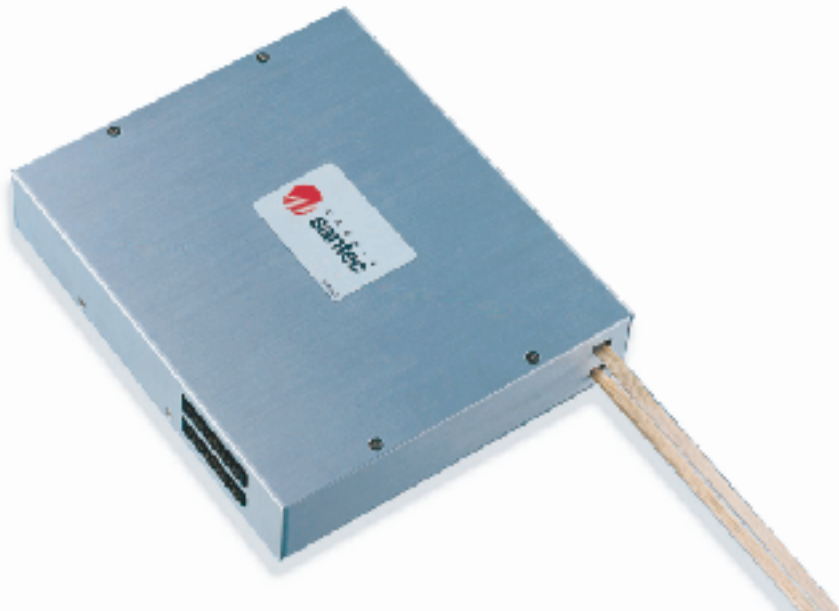


Preliminary

4-Channel switchable OADM Module
OADM-4



The OADM-4 module consists of high-performance and highly reliable optical components manufactured by SanteC Corporation. Applications include the use in reconfigurable optical networks, in switching/add/drop nodes of multi-service Metro ring and mesh networks and in CATV and Enterprise networks. Moreover, the monitoring and management of optical power are possible through variable optical attenuators and integrated photo-detector monitors with taps.

Model Variations

- ▶ Integration with SanteC interference-filter DWDM Mux's and DMux's at input and output of OADM
- ▶ With IPDs at Add and Drop ports
- ▶ For 8, 16 or 32 Channel operation

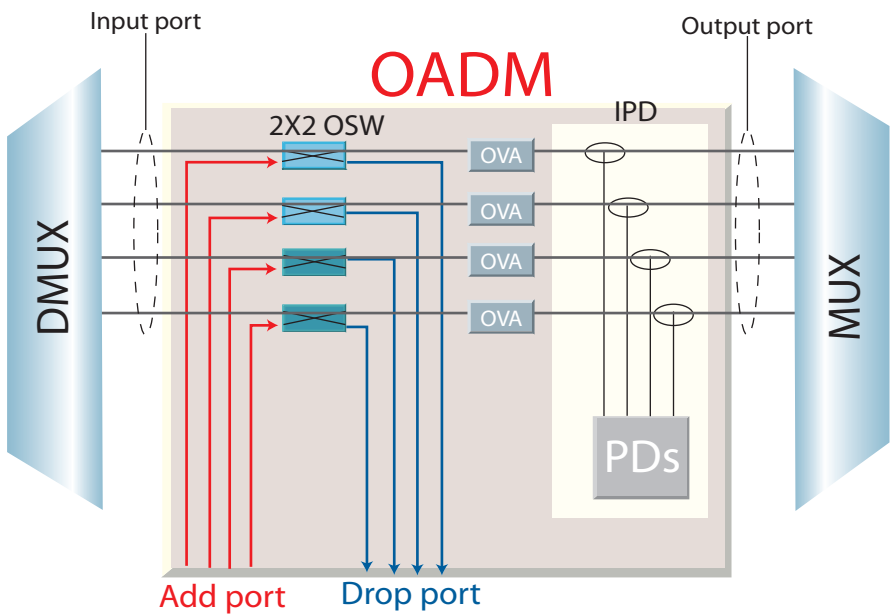
Features

- ▶ Modular integration of opto-mechanical switches (OSWs), opto-mechanical variable attenuators (OVAs) and integrated photo detector monitors with taps (IPDs)
- ▶ Switchable Pass-Through or Add/Drop function
- ▶ Optical power control of individual wavelengths with variable attenuator
- ▶ Optical power monitoring of individual wavelengths with integrated PD/Tap monitor
- ▶ Low power consumption because of latching operation
- ▶ Easy mounting on Printed Circuit Boards

Applications

- ▶ OXC/OADM nodes in reconfigurable optical networks
- ▶ Optical path protection
- ▶ Switching/Add/Drop node in flexible Metro DWDM ring and mesh networks
- ▶ Multi-protocol routing/switching in Enterprise and CATV networks

Application Example



Typical Performance

Parameter	Unit	Specification
Insertion Loss	Max. dB	2.0
Switching Time	Max. msec	10
Attenuation Range	dB	0 - 15
Attenuation Resolution	Max. dB	0.1
PD Sensitivity	mA/W	20 - 40
Return Loss	Min. dB	50
Polarization Dependent Loss (PDL)	Max. dB	0.2
Electric Power		DC 5V, 40mA (during switching), 500mA (during attenuation tuning)
Operation Temperature	°C	0 to + 70 (Operation)
Storage Temperature	°C	- 40 to + 85 (Storage)
Size	mm	200 x 180 x 40