STARVIEW International

STARMUX

Starview CWDM Mux/Demux

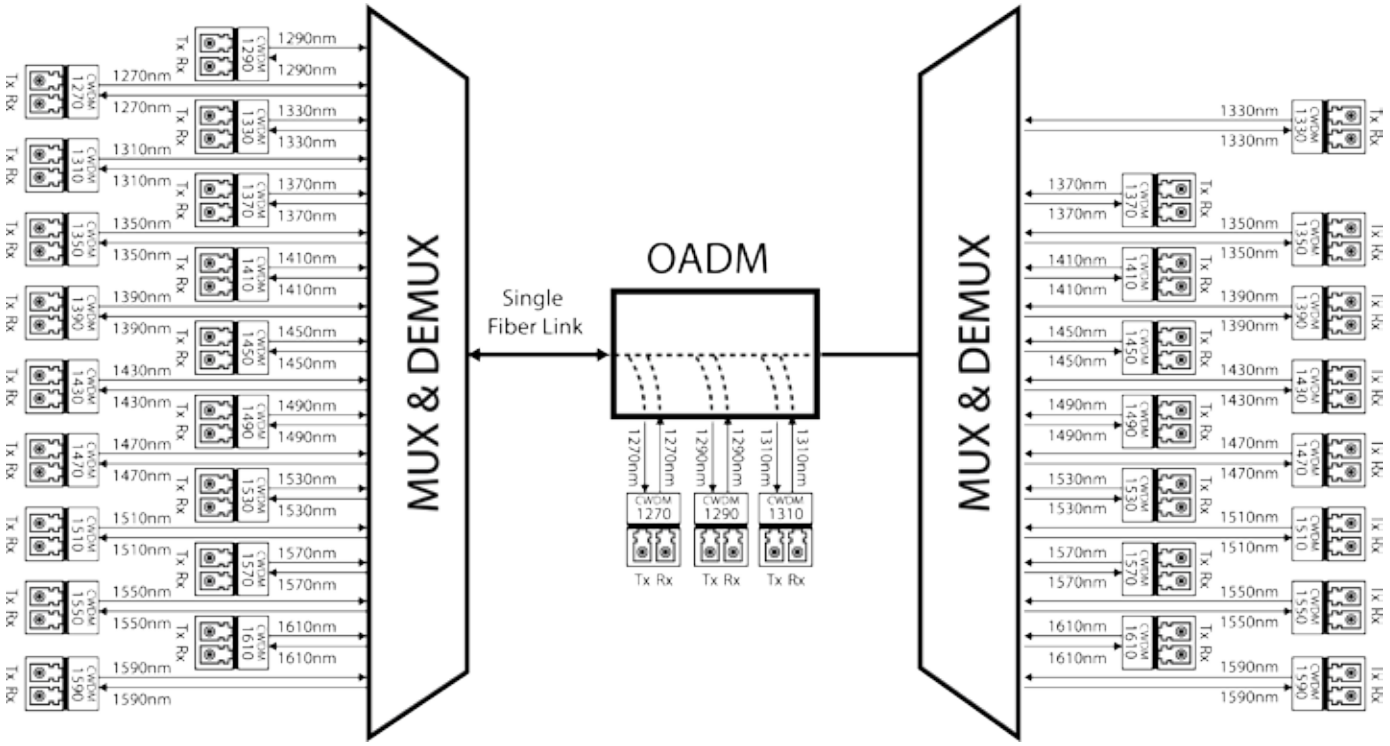
- Cost Effective
- Duplex/ Simplex WAN Fiber connection
- Metallic casing and connectors
- Passive Equipment suitable for outdoor enclosure
- Compact Enclosure
- Low insertion loss
- Maximize Fiber Usage
- Maximum 9 CH CWDM for Rack Mount Enclosure Module
- Maximum 18 CH CWDM for 19” Rack Mount able unit

What is WDM?

- Wavelength Division Multiplexing
- Technique where optical signals with different wavelengths are combined, transmitted together, and separated again. It is mostly used for optical fiber communications to transmit data in several (or even many) channels with slightly different wavelengths
- Widely used to increase capacity on routes with fiber exhaustion
- Inexpensive alternative to installing more fiber or leasing additional fibers

CWDM Mux/ Demux and OADM

CWDM	Mux / Demux	OADM
Abbreviations	Multiplexing and Demultiplexing	Optical Add and Drop Multiplexing
Components	Consists of Optical combiner and splitters	Consists of Optical circulators, combiners and splitters
Topology	Point to Point	Linear Add and Drop
Insertion loss	3.5dB per channel	1.7dB per channel



STARMUX CWDM OADM

Features

- Increase bandwidth on existing fiber infrastructure
- Alleviate fiber exhaustion
- Transmit multiple protocols over an existing duplex fiber link by combining the fiber outputs of multiple media converters
- "Plug and play," no configuration of CWDM components
- Provide scalable bandwidth of up to 10Gbps per channel over existing fiber links
- Use existing standard optical ports on switches and routers

Applications

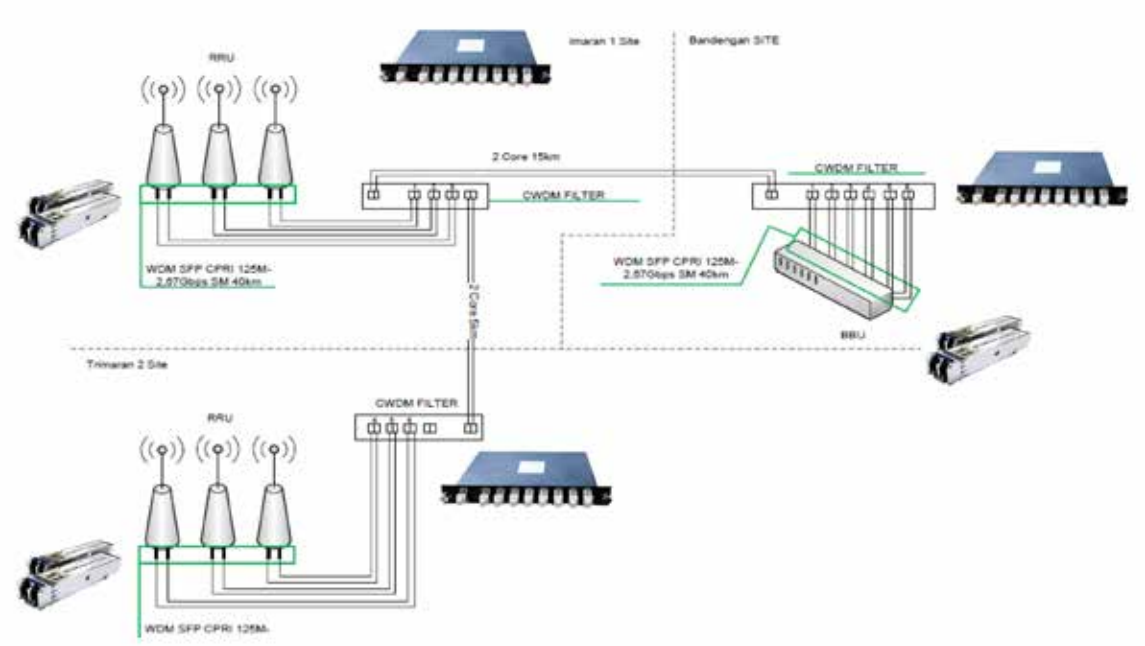
- Line Monitoring
- WDM Network
- Fiber Optical amplifier

CWDM OADM STARMUX is a passive technology that allows for any protocol to be transported over the link, as long as it is at a specific wavelength (i.e. T1 over fiber at 1570nm transported alongside 10Gbps Ethernet at 1590nm). Because the multiplexers simply refract light at any network speed, regardless of the protocol being deployed, STARMUX can help to future proof the networking infrastructure.

Specifications

Parameters	4 Channel	5 Channel	8 / 9 Channel
Operating Wavelength	1500nm ~ 1620nm		1460nm ~ 1620nm
Center Wavelength (λc)	1510nm ~ 1610nm		1470nm ~ 1610nm
Add/Drop Ch. Max Insertion Loss	0.7 dB		0.7 dB
Pass Ch. Max Insertion Loss	1.0 dB		1.0 dB
Insertion Loss Temp. Sensitivity	<0.005 dB/°C		
Wavelength Temp. Shifting	<0.002 nm/°C		
Polarization Dependent Loss	<0.1 dB		
Polarization Mode Dispersion	<0.1 PS		
Directivity	>50 dB		
Return Loss	>45 dB		
Maximum Power Handling	500 mW		
Operating Temperature	-5°C to 75°C		
Storage Temperature	-40°C to 85°C		

Applications – CWDM with OADM fiber connection



Ordering Information

Accessory:

SVR-STARMUX-19R

Starview 19" Rack Mountable STARMUX chassis for up to 2 x STARMUX module

SVR-BRACKET-23

Starview L-Bracket - 23" RACK MOUNT EAR KIT for STARMUX and STARTAP chassis

SV - STARMUX - __AD___ ___ - ___ ___

Manufacturer:	Starview International	
Type:	CWDM MUX/DEMUX	
Channel Configuration:	3: 3 Ch. 4: 4 Ch. 6: 6 Ch. 9: 9 Ch.	
Client Ports	31: 1310 port 33: 1330 port 35: 1350 port 37: 1370 port 41: 1410 port 43: 1430 port 45: 1450 port 47: 1470 port 49: 1490 port 51: 1510 port 53: 1530 port 55: 1550 port 57: 1570 port 59: 1590 port 61: 1610 port	31: Add/Drop 1310 port 33: Add/Drop 1330 port 35: Add/Drop 1350 port 37: Add/Drop 1370 port 41: Add/Drop 1410 port 43: Add/Drop 1430 port 45: Add/Drop 1450 port 47: Add/Drop 1470 port 49: Add/Drop 1490 port 51: Add/Drop 1510 port 53: Add/Drop 1530 port 55: Add/Drop 1550 port 57: Add/Drop 1570 port 59: Add/Drop 1590 port 61: Add/Drop 1610 port
Line Port:	S: Simplex Type	D: Duplex Type
Connectors:	LC: LC/PC	SC: SC/PC

Example:

SV-STARMUX-3AD3149-DLC

Starview STARMUX Optical Add and Drop Module (OADM) with 3 Channel CWDM wavelengths 1310/ 1470/ 1490nm and 2 x Duplex LC/UPC COM ports