

STARMUX

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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

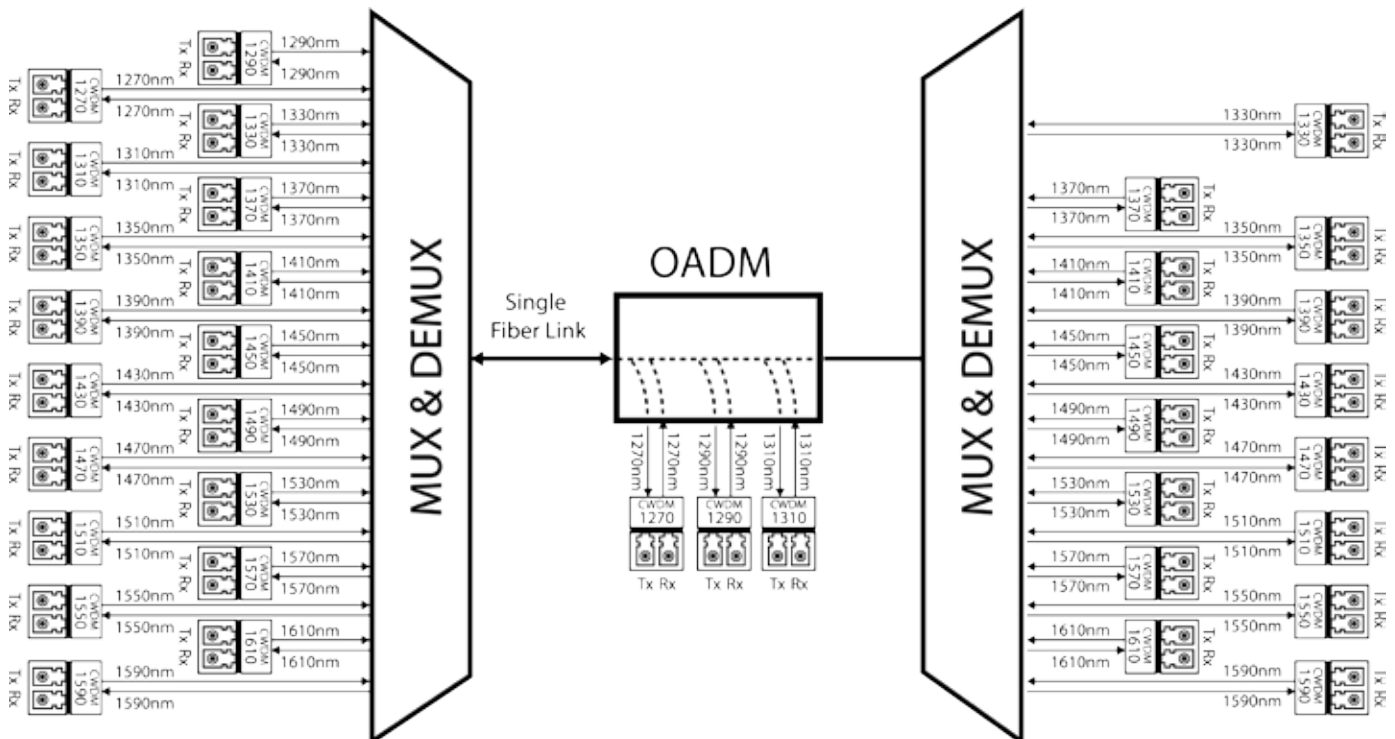
What is WDM?

- 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



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STARMUX Indoor



Starview Mux/Demux Module



Starview Rack Mount Chassis

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

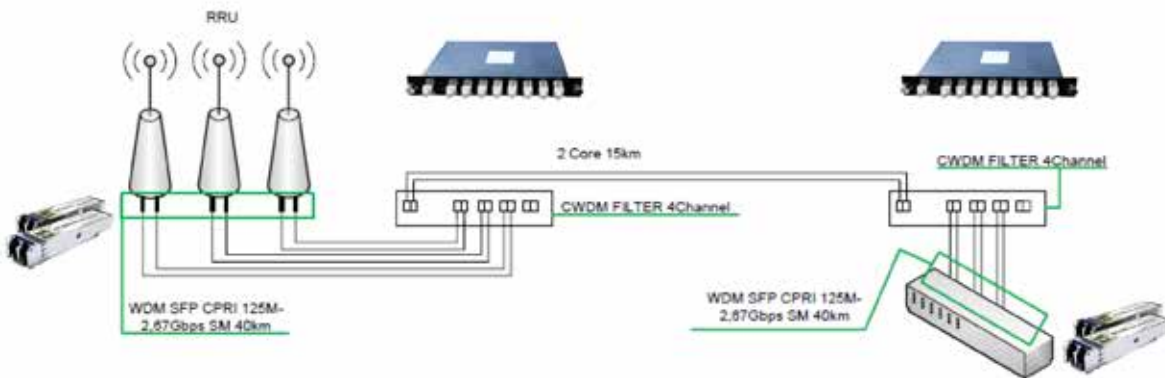
- Line Monitoring
- WDM Network
- Fiber Optical amplifiers

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.

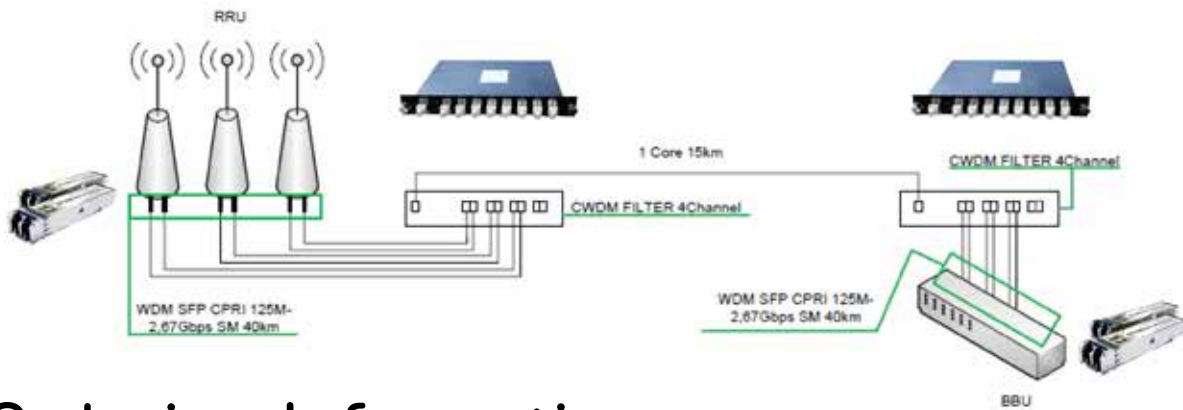
Specifications

Parameters	4 Channel	5 Channel	8 / 9 Channel	16 / 18 Channel
Operating Wavelength	1500nm - 1620nm	1500nm - 1620nm	1270nm - 1610nm	1270nm -1610nm
Center Wavelength (λ_c)	1510nm - 1610nm	1510nm - 1610nm		
Max Insertion Loss	1.7 dB/channel	2.0 dB/channel	2.5 dB	3.5 dB
Channel Uniformity			1.0 dB	1.5 dB
Channel Ripple			0.3 dB	0.3 dB
Isolation Adjacent			>30 dB (Demux)	>30 dB (Demux)
Isolation Non-adjacent			>40 dB(Demux)	>40 dB (Demux)
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	
Package	19"case packaging 440mm x 330mm x 200mm			

Applications – CWDM with dual fiber connection



Applications – CWDM with single 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

Manufacturer: SVR: Chassis with CWDM (16/18Port)
SV: Mux/ Demux Module

Type: CWDM MUX/DEMUX

Channel Configuration:
827: 8 Ch. 1270 ~ 1410nm
847: 8 Ch. 1470 ~ 1610nm
947: 9 Ch. 1470 ~ 1610nm+1310nm
1627: 16 Ch. 1270 ~ 1610nm
-1430nm-1450nm
1827: 18 Ch. 1270 ~ 1610nm

Fiber Type: S: Simplex Type D: Duplex Type

Connectors: LC: LC/PC SC: SC/PC

Example:

SVR-STARMUX-1627-DLC

Starview 19" Rack Mountable STARMUX chassis with 16 x CWDM wavelengths 1270/ 1290/ 1310/ 1330/ 1350/ 1370/ 1390/ 1410/ 1470/ 1490/1510/ 1530/ 1550/ 1570/ 1590/ 1610nm and 1 x Duplex LC/UPC COM port

SV-STARMUX-827-DLC

Starview STARMUX 8 Channel Mux/ Demux Module with CWDM wavelengths 1270/ 1290/ 1310/ 1330/ 1350/ 1370/ 1390/ 1410nm and 1 x Duplex LC/UPC COM port

