

# 1x16 Multi-Channel Opto-Mechanical Optical Switches

Plug-in Card Type for FMT Multi-Service Transport System  
OTN Solutions for Metro, Regional & Long Haul



## Description

Based on thin film filter technology, the opto-mechanical optical switches can connect optical channels by redirecting an incoming optical signal into selected output fiber.

FS opto-mechanical optical switch is a kind of optical path control equipment, with automatic scanning optical path and manual switch optical path, mainly used in optical communication, such as optical fiber cable monitoring routing switch, the data link light gathering routing switch, etc.

Optical transport network combines powerful and flexible Optical Switches to support optical network protection/restoration, Datacenter Interconnect, Business Ethernet Services, Metro and access rings, etc.

## Features

- Low insertion loss, fast switching
- Support work channel digital display, intuitive
- Support manual switching modes by the NMU
- Unaffected by the polarization and wavelength
- Switching time interval from 1 second to 99 hours 59 minutes and 59 seconds

## Application

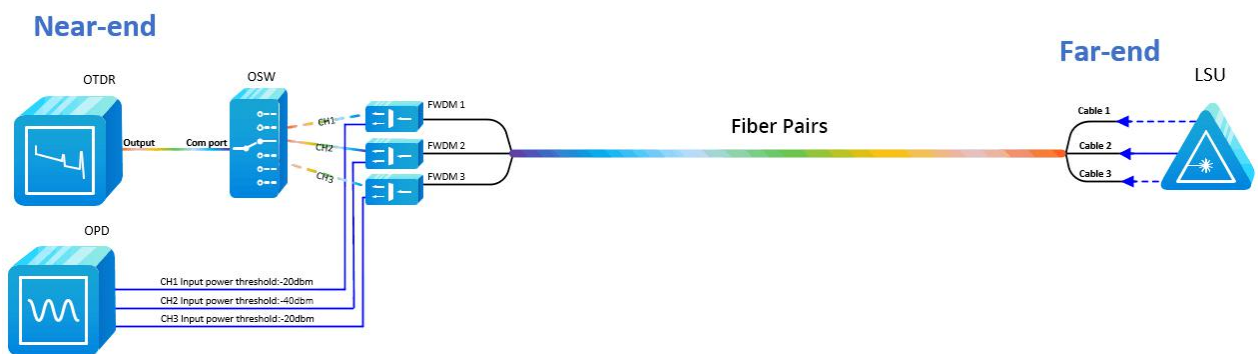
- Test equipment
- Network protecting
- Optical signal routing
- Optical cross connect
- Metropolitan area network

## Product Specifications

|                           |                         |                    |   |
|---------------------------|-------------------------|--------------------|---|
| <b>Testing Wavelength</b> | 1310nm / 1550nm         | <b>Repetitive</b>  | $\leq 0.05\text{dB}$  |
| <b>Crosstalk</b>          | $> 55\text{dB}$         | <b>PDL</b>         | $\leq 0.05$   |
| <b>Insertion Loss</b>     | Typ $\leq 1.0\text{dB}$ | <b>Return Loss</b> | $> 50\text{dB}$   |
| <b>WDL</b>                | $\leq 0.25$             | <b>Switch Time</b> | $10 \times (n-m) + 5$ (from port m to n, $n > m$ )<br>$10 \times (n-m) + 30$ (from port n to m, $n > m$ ) |
| <b>Connector</b>          | LC/UPC                  | <b>Housing</b>     | Pluggable Module (Occupies 2 slots in FMT chassis)  |
| <b>Channel Optional</b>   | 16                      | <b>Management</b>  | SNMP, Monitor Cable   |

## Monitor Online System for Optical Cable

FS cable monitoring system is a centralized server solution that manages the status of cable and fiber network, as well as any fiber faults or performance degradation in your network. It consists of OPD, OTDR, OSW and LSU cards, and these cards are highly integrated via FS management platforms.

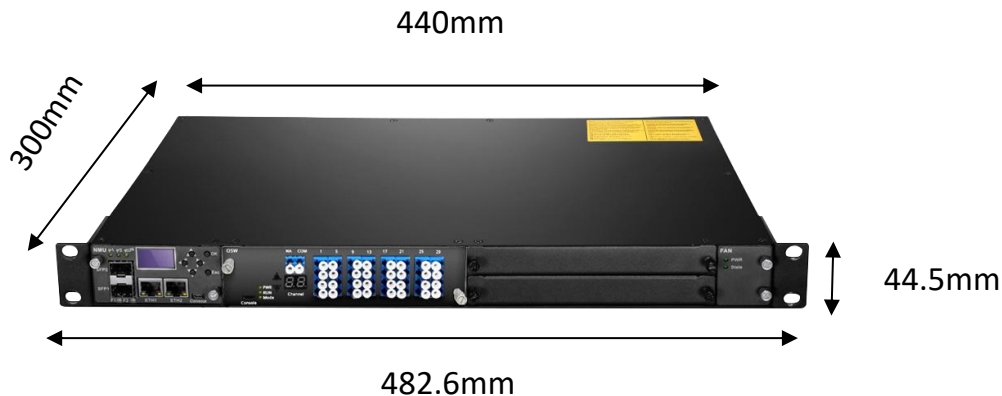


## Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/EDFA/OEO/OLP card with accessories;

- Width: 482.6mm (19")
- Height: 44.50mm (1.75")
- Depth: 300mm (11.81")

OSW plug-in card occupies two slots.



## Ordering Information (100 GHz ITU DWDM Grid)

| Category | ID                     | Description  |
|----------|------------------------|--|
| OSW      | <a href="#">#73287</a> | 1x16 Multi-Channel Opto-Mechanical Optical Switches with Adjustable Channels Control, Pluggable Module |
| OTDR     | <a href="#">#73281</a> | Customized OTDR (Optical Time Domain Reflectometer), Pluggable Module                                  |
| OPD      | <a href="#">#78568</a> | 4 Channels 1550nm OPD (AIU) Optical Power Detection, LC/UPC, Pluggable Module                          |
| OPD      | <a href="#">#70941</a> | Customized OPD (AIU) Optical Power Detection, Pluggable Module   |
| LSU      | <a href="#">#78469</a> | Customized LSU Light Source Unit, Pluggable Module   |
| FWDM     | <a href="#">#65811</a> | Customized Filter Wavelength Division Multiplexer FTTH/FTTX 1310/1550/1490nm Fwdm Filter WDM           |
| Chassis  | <a href="#">#39214</a> | 1U Managed Chassis Unloaded, Supports up to 4x EDFA/OEO/OLP Module with Accessories                    |



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