

### I. Passive Optical Devices Series

#### 1. Optical Division Multiplexer/Demultiplexer Series (ODM)

##### Product Introduction

ODM Optical division multiplexer/demultiplexer card is a CWDM/DWDM multiplexer introduced by Visint®. It can combine and split CWDM or DWDM channels, greatly save customers' optical fiber resources, and flexibly change network configuration according to customers' needs. The frequency interval of 100 GHz DWDM system supports smooth upgrade to 48 waves, and the frequency interval of 50 GHz DWDM system supports smooth upgrade to 96 waves. Higher spectrum utilization, saving bandwidth resources. Moreover, the CWDM system supports a smooth upgrade to 18 waves.

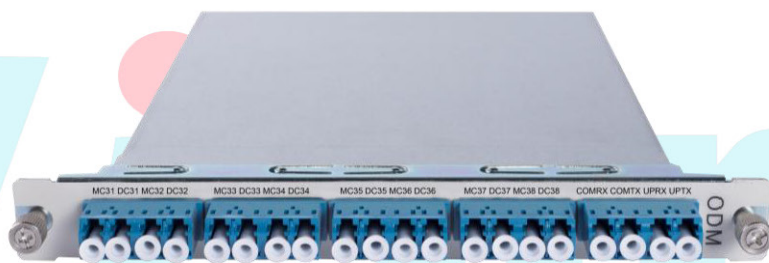


Figure 1: Optical Division Multiplexer/Demultiplexer Card (ODM)



Figure 2: Integrated Multiplexing/Demultiplexing Equipment

##### Product Feature

- ◆ Supporting up to 96 waves and can be customized
- ◆ Pure passive without power supply, non-power supply debugging, transparent transmission.
- ◆ Supporting online upgrade and expansion, simple maintenance and easy operation.
- ◆ Supporting CWDM and DWDM (100GHZ or 50GHZ) applications.
- ◆ Supporting multiple scene applications such as single fiber unidirectional, single fiber bidirectional, and dual fiber bidirectional.
- ◆ Low insertion loss, high channel isolation, high reliability and stability, in line with GR-1221 standard.

- ◆ Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).
- ◆ Supporting local and remote control functions.

## Product Specification

| System Parameter                 | Technical Index  |                         |
|----------------------------------|--|-------------------------|
| Wavelength range                 | CWDM: 1271nm~1611nm,<br>DWDM: C-Band (100GHZ or 50GHZ).  |                         |
| Channel spacing                  | CWDM: 20nm, DWDM: 0.8nm/0.4nm.   |                         |
| Passband width                   | CWDM: ±6.5nm, DWDM: 0.1nm.   |                         |
| Passband flatness                | <0.5dB.  |                         |
| Channel insertion loss           | 4CH: <1.0dB, 6CH: <2.0dB, 8CH: <2.5dB, 12CH: <2.8dB,<br>16CH: <3.2dB, 40CH: <5.5dB, 48CH: <5.5dB, 80CH: <5.5dB,<br>96CH: <5.5dB. |                         |
| Adjacent channel isolation       | >28dB.   |                         |
| Non-adjacent channel isolation   | >30dB.   |                         |
| Polarization dependent loss(PDL) | <0.1dB.  |                         |
| Polarization mode dispersion     | <0.1ps.  |                         |
| Return loss                      | >45dB.   |                         |
| Maximum input optical power      | >300mw.  |                         |
| Network management mode          | CLI, NetRiver, WEB.  |                         |
| Product dimension                | Single card: 177(W)*20(H)*225(D)(mm).<br>Chassis unit: 482(W)*177(H)*250(D)(mm).   |                         |
| Environmental requirements       | Working temperature  | -10°C ~ 70°C.           |
|                                  | Storage temperature  | -40°C ~ 80°C.           |
|                                  | Relative humidity  | 5%~95% no condensation. |
| Safety and EMC                   | Compliance with FCC, UL, CE, TUV, CSA standards.   |                         |
| Power consumption                | <2W.   |                         |

## Ordering Information:



复用类型

OM: 复用  
OD: 解复用  
ODM: 复用解复用  
OADM: 光分插复用



复用路数

XX: 波道数

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## 2. Optical Splitter Unit (OSU)

### Product Introduction

OSU optical splitter unit is a splitter based on planar optical waveguide technology introduced by Visint<sup>®</sup>. It is mainly used for communication trunk, MAN, LAN, private network, DPI, FTTX of PON, etc. Our 1\*N, 2\*N planar waveguide optical splitters are small and cost effective. They support a wide wavelength range (1260-1620nm) and can provide customers with low insertion loss and low polarization dependent loss.



Figure 3: Optical Splitter Unit (OSU)



Figure 4: Optical Splitter Card (OSU)

### Product Feature

- ◆ Supporting single-mode and multi-mode, various network applications.
- ◆ Supporting single window and multiple windows, optional splitting ratio.
- ◆ Supporting PLC and FBT technology, low insertion loss, low polarization dependent loss.
- ◆ Pure passive without power supply, non-power supply debugging, transparent transmission.
- ◆ Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).

**Product Specification**

| System Parameter                 |  | Technical Index   |
|----------------------------------|--|---|
| Wavelength range                 |  | Single mode: 1260nm~1650nm, Multimode: 850nm.   |
| Insertion Loss                   | 1/2  | Single mode: 50%: ≤3.50dB, Multimode: 50%: ≤4.10dB.                                     |
|                                  | 1/3  | Single mode: 33.3%: ≤5.40dB, Multimode: 33.3%: ≤5.80dB.                                 |
|                                  | 1/4  | Single mode: 25%: ≤7.00dB, Multimode: 25%: ≤7.60dB.                                     |
|                                  | 1/8  | Single mode: 12.5%: ≤10.30dB, Multimode: 12.5%: ≤11.10dB.                               |
|                                  | 1/16   | Single mode: 6.25%: ≤13.50dB, Multimode: 6.25%: ≤14.20dB.                               |
|                                  | 1/32   | Single mode: 3.125%: ≤17.00dB, Multimode: 3.125%: ≤17.70dB.                             |
|                                  | 1/64   | Single mode: 1.563%: ≤20.50dB, Multimode: 1.563%: ≤21.20dB.                             |
|                                  | 60:40  | Single mode: 60%: ≤2.70 dB / 40%: ≤4.70dB,<br>Multimode: 60%: ≤3.20 dB / 40%: ≤5.20dB.  |
|                                  | 70:30  | Single mode: 70%: ≤1.90 dB / 30%: ≤6.00dB,<br>Multimode: 70%: ≤2.50dB / 30%: ≤6.50dB.   |
|                                  | 80:20  | Single mode: 80%: ≤1.20 dB / 20%: ≤7.90dB,<br>Multimode: 80%: ≤1.40dB / 20%: ≤9.00dB.   |
|                                  | 90:10  | Single mode: 90%: ≤0.80dB / 10%: ≤11.60dB,<br>Multimode: 90%: ≤1.30 dB / 10%: ≤12.00dB. |
|                                  | 70:15:15   | Single mode: 70%: ≤1.90dB / 15%: ≤9.00dB,<br>Multimode: 70%: ≤2.50dB / 15%: ≤10.50dB.   |
|                                  | 80:10:10   | Single mode: 80%: ≤1.20dB / 10%: ≤11.60dB,<br>Multimode: 80%: ≤1.20dB / 10%: ≤12.00dB.  |
|                                  | 70:10:10:10  | Single mode: 70%: ≤1.90dB / 10%: ≤11.60dB,<br>Multimode: 70%: ≤2.50dB / 10%: ≤12.00dB.  |
| 60:20:10:10                      | Single mode: 60%: ≤2.70dB / 20%: ≤7.90dB / 10%: ≤11.60dB,<br>Multimode: 60%: ≤3.20dB / 20%: ≤9.00dB / 10%: ≤12.00dB. |   |
| Polarization dependent loss(PDL) |  | ≤0.15dB.  |
| Return loss                      |  | ≥55dB.  |
| Directivity                      |  | ≥55dB.  |
| Network management mode          |  | CLI , NetRiver, WEB.  |
| Product dimension                |  | Single card: 177(W)*20(H)*225(D)(mm).<br>Chassis unit: 482(W)*177(H)*250(D)(mm).        |
| Environmental requirements       | Working temperature  | -10°C ~ 70°C.   |
|                                  | Storage temperature  | -40°C ~ 80°C.   |
|                                  | Relative humidity  | 5% ~ 95% no condensation.   |
| Safety and EMC                   |  | Compliance with FCC, UL, CE, TUV, CSA standards.  |
| Power consumption                |  | <2W.  |

Note: The above specifications do not include fiber connector loss, and the test temperature is indoor room temperature.

**Ordering Information:**

OSU ———— □

光信号模式

S: 单模

M: 多模

X: 单多模混用

Visint

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