

## Optical Passives for HFC, FTTx & RFoG Solutions

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- Full Line of Optical Passives and Accessories
- WDM/CWDM/DWDM
- Optical Splitters
- Dispersion Compensation Module (DCM)
- ITU G.694 standard compliant
- Excellent Wavelength Stability
- Cost Effective Solution
- High Port Isolation
- Low Insertion Loss
- Flexibility for Customization



ACT offers a complete line of DWDMs, CWDMs, WDMs, OADMs, Couplers, DCM, Optical Shelf and Accessories. The Wavelength Division Multiplexers (WDMs) feature low insertion loss, high isolation and excellent wavelength stability.

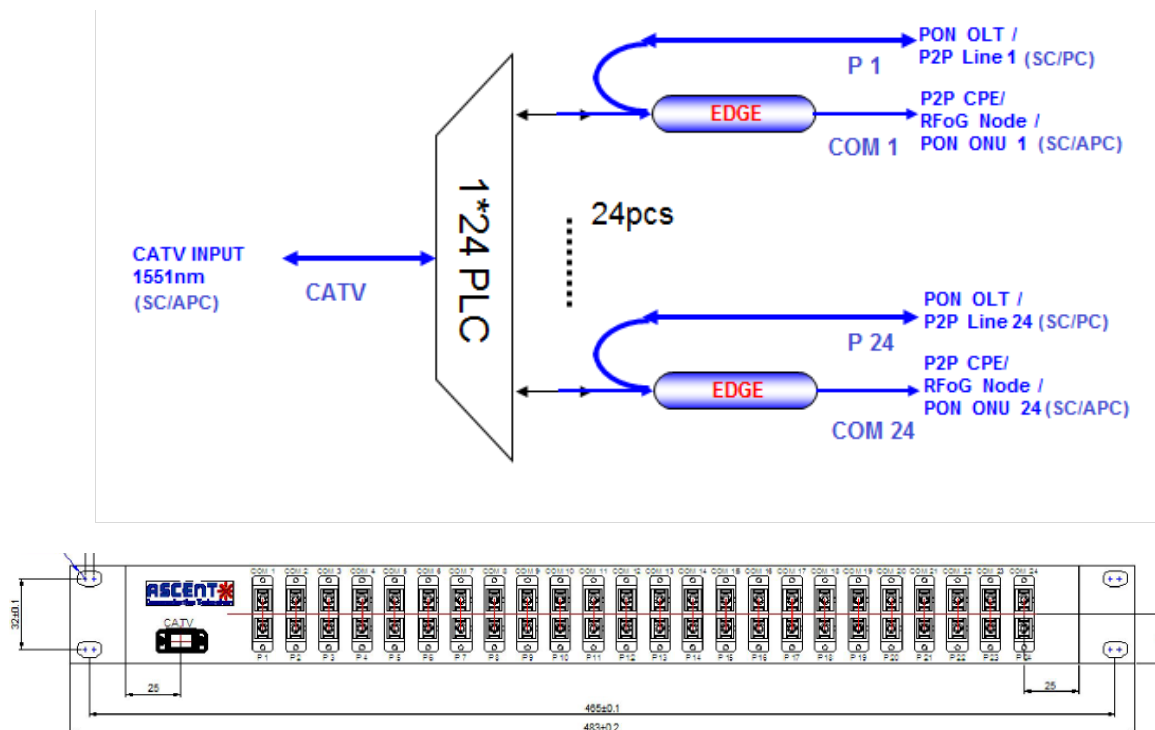
The CWDM/DWDMs are designed to multiplex (mux) or de-multiplex (demux) optical signals in full optical spectrum with CWDM/DWDM multiple channels at an ITU standards ITU-T defined spacing. It comes as different form factor packages, 1RU 19" rack-mount chassis, standard LGX modules or flat box assemblies.

ACT also developed special range of WDM units which are suitable for HFC, FTTx (P2P, P2MP), RFOG (Radio Frequency over Glass) applications, permitting DOCSIS and HFC to operate over a EPON/GPON compliant Passive Optical Network (PON) as commonly deployed for Fibre to the Home (FTTH) developments solution in high density FTTX networks to bring the video services to business and home premises.

## Key Features

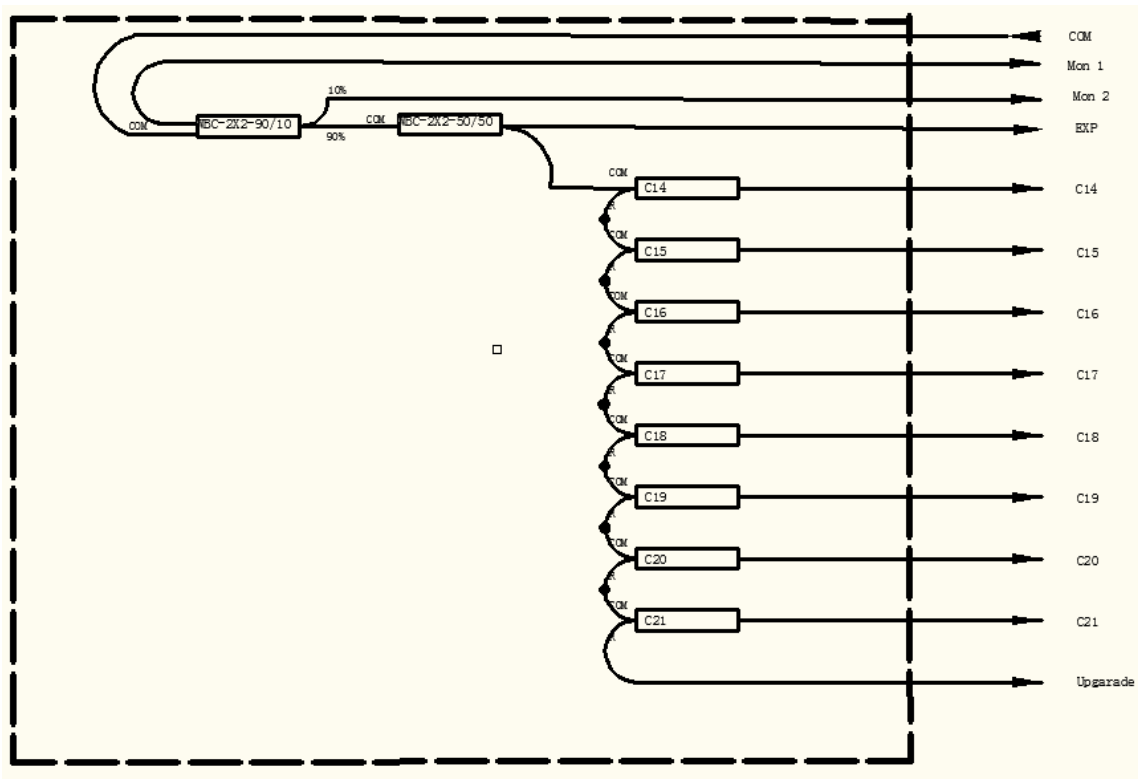
- Cost-effective Full Line of Optical Passives and Accessories
- WDM/CWDM/DWDM/OADM, Optical Coupler, Attenuator etc.
- ITU G.694 standard compliant
- Excellent Wavelength Stability
- High Port Isolation, low Insertion Loss
- Customization option available
- SC/APC, LC/APC, FC/APC and E2000/APC connectors available.
- Optional 1311 nm port for forward path transmission to HFC nodes
- Either single port or with internal splitter to match number of CWDM ports for feeding multiple HFC nodes over one fibre
- Options for assembly into 19" sub-racks, LGX chassis, or flat box, ready for deployment.

## Sample 1RU WDM Block Diagram (P2P with Video Overlay)



**Figure 1. Coarse wavelength division multiplexer for 1551 nm CATV overlay in P2P Active Ethernet applications. 24-port CATV RF overlay splitter with 24 x P2P Active Ethernet ports.**

## Com (ITU C14 to 61)



## DWDM Specifications

### ACT Optical Passives DWDM (AOPD)

#### Optical Specification

|                                |   |
|--------------------------------|---|
| Operating Wavelength           | 1520 nm to 1580 nm  |
| Channel Spacing                | 100 GHz or 200 GHz  |
| Channels                       | 2, 4, 6, 8, 10 or 12                                      |
| Channel Pass Band              | ITU $\pm 0.22$ nm (100 GHz) , ITU $\pm 0.50$ nm (200 GHz) |
| Pass Band Flatness             | $\leq \pm 0.5$ dB   |
| Insertion Loss 2 ch            | 1.2 dB Max  |
| Insertion Loss 4 ch            | 1.7 dB Max  |
| Insertion Loss 8 ch            | 2.5 dB Max  |
| Insertion Loss 10 ch           | 3.0 dB Max  |
| Adjacent Channel Isolation     | $\geq 30$ dB  |
| Non-adjacent Channel Isolation | $\geq 45$ dB  |
| Directivity                    | $\geq 50$ dB  |
| Return Loss                    | $\geq 45$ dB  |

#### General Specifications

|                             |   |
|-----------------------------|---|
| Operating Temp              | -40 °C to 85 °C   |
| Storage Temp                | -40 °C to 85 °C   |
| Operating relative humidity | 5 % to 95 %   |
| Dimensions (W × D × H)      | Various by model<br>LGX : industry standard<br>Flat Box: 100 mm × 80 mm × 10.5 mm ( $\leq 8$ output ports),<br>or 140 mm × 115 mm × 18 mm ( $> 8$ output ports) |
| Weight                      | Note  |
| Ship weight                 | Note  |

*Note: Contact ACT for different packaging options. Weight will vary depending on model.  
Losses excluding connector Loss (a pair of connector loss max: 0.5dB)*



## 100 / 200 GHz Channel Spacing

| ITU Channel | Wavelength (nm) | Color Reference                  |
|-------------|-----------------|----------------------------------|
| 21          | 1560.61         | RED                              |
| 22          | 1559.79         |                                  |
| 23          | 1558.98         |                                  |
| 24          | 1558.17         |                                  |
| 25          | 1557.36         |                                  |
| 26          | 1556.96         |                                  |
| 27          | 1555.75         |                                  |
| 28          | 1554.94         |                                  |
| 29          | 1554.13         |                                  |
| 30          | 1553.33         |                                  |
| 31          | 1552.52         |                                  |
| 32          | 1551.72         |                                  |
| 33          | 1550.92         |                                  |
| 34          | 1550.12         |                                  |
| 35          | 1549.32         |                                  |
| 36          | 1548.51         |                                  |
| 37          | 1547.72         | Not used with RED/BLUE filtering |
| 38          | 1546.92         |                                  |
| 39          | 1546.12         |                                  |
| 40          | 1545.32         |                                  |
| 41          | 1544.53         |                                  |
| 42          | 1543.73         |                                  |
| 43          | 1542.94         |                                  |
| 44          | 1542.14         | BLUE                             |
| 45          | 1541.35         |                                  |
| 46          | 1540.56         |                                  |
| 47          | 1539.77         |                                  |
| 48          | 1538.98         |                                  |
| 49          | 1538.19         |                                  |
| 50          | 1537.40         |                                  |
| 51          | 1536.61         |                                  |
| 52          | 1535.82         |                                  |
| 53          | 1535.04         |                                  |
| 54          | 1534.25         |                                  |
| 55          | 1533.47         |                                  |
| 56          | 1532.68         |                                  |
| 57          | 1531.90         |                                  |
| 58          | 1531.12         |                                  |
| 59          | 1530.33         |                                  |

**Table 1: Reference ITU DWDM Chart**

## Optical Splitters Specifications 1x2

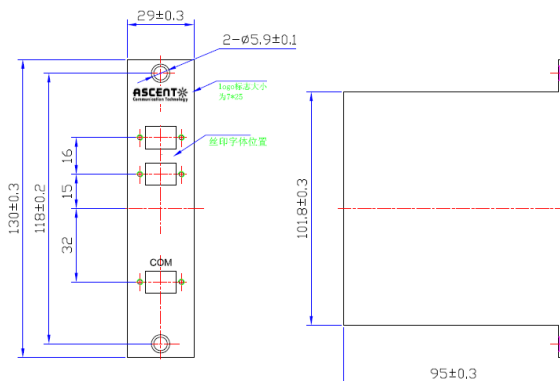
### ACT Optical Passives Optical Splitters (AOS)

#### Optical Specification

|                                |  |
|--------------------------------|--|
| Operating wavelength           | 1310 and 1550 +/- 40 nm                            |
| Configuration                  | 1x2  |
| Insertion Loss                 | Various See below chart                            |
| Uniformity (dB)                | <=0.6 dB   |
| Directivity                    | ≥ 50 dB  |
| Polarization Dependent Loss    | <=0.1dB  |
| Return loss                    | ≥ 55 dB  |
| Connectors                     | SC/APC, SC/PC, LC/APC, LC/PC                       |
| Fiber Types                    | 900um, 2mm, or 3mm                                 |
| <b>General Specifications</b>  |  |
| Operating Temp, °C             | -20 to 70  |
| Storage Temp, °C               | -40 to 85  |
| Operating relative humidity, % | 5 to 95  |
| Dimensions (W x D x H)         | LGX, Splice Tube or Flat Box (ABS): 100×80×10.5 mm |
| Weight, kg                     | Weight varies depending on model.                  |

| Split ratio | Maximum Insertion Loss dB |
|-------------|---------------------------|
| 50/50       | 3.6/3.6                   |
| 55/45       | 3.1/4.3                   |
| 60/40       | 2.8/4.8                   |
| 65/35       | 2.3/5.3                   |
| 70/30       | 2.1/6.1                   |
| 75/25       | 1.6/7.2                   |
| 80/20       | 1.3/8.0                   |
| 85/15       | 1.2/9.6                   |
| 90/10       | 0.9/11.3                  |
| 95/05       | 0.6/15                    |

Note: Contact ACT for different packaging options. Losses excluding connector Loss (a pair of connector loss max: 0.5dB)



## Optical Shelf and Frame Specifications

### ACT Optical Passive Shelf and Optical Passive Distribution Frame

- Standard 19" cabinet design for convenient and quick installation.
- Specially-structured front-back latch of the cases facilitates easier adjusting and suitable for different kind of frame installation.
- Fiber can be led in from both the left and the right sides with complete front operations.
- Each module has a reliable restricting and positioning mechanism to ensure correct operations.
- Patent design for protecting bare fiber fusing point.
- 12 slots for the Shelf and 12 core fiber distribution module to utilize the place and shrink the box size
- Convenient cable fixing device

### Optical Shelf Specification

|                               |   |
|-------------------------------|---|
| <b>Material</b>               | 1.5 mm thick cold-rolled sheet  |
| <b>Capacity</b>               | Up to 72 interconnectors or patches, 12 LGX modules (4RU)   |
| <b>Dimensions (W × H × D)</b> | With mounting bracket 483 mm × 177 mm × 305 mm (4RU)<br>With mounting bracket 483 mm × 44 mm × 320 mm (1RU) |
| <b>Model Number</b>           | AOP-LGX-CH (4RU), AOP-LGX-CH-1RU (1RU up to 6 LGX Module),  |

### Optical Distribution Frame Specification

|                          |   |
|--------------------------|---|
| <b>Material</b>          | 1.5 mm thick cold-rolled sheet, 1 to 4RU                        |
| <b>Insertion Loss</b>    | ≤0.5dB  |
| <b>Optical Connector</b> | AS: SC/APC; US: SC/UPC; AF: FC/APC or UF: FC/UPC                |
| <b>Return Loss</b>       | PC ≥ 40dB, UPC ≥ 50dB, APC ≥ 60dB                               |
| <b>Model Number</b>      | AOP-ODF-DXX-YY (XX:36, 48, 72, 96 Fiber, YY: Optical Connector) |

### General Specifications

|                                    |                       |
|------------------------------------|-----------------------|
| <b>Operating Temp</b>              | -40 °C to 85 °C       |
| <b>Storage Temp</b>                | -40 °C to 85 °C       |
| <b>Operating relative humidity</b> | 5 % to 95 %           |
| <b>Weight</b>                      | Varies by model types |

*Note: Contact ACT for different packaging options. 8° angle polished for all APC connectors.*



This diagram illustrates the exploded view of a 6-bay server chassis. The components are numbered as follows:

- 1:** Front bezel for the first bay.
- 2:** Front bezel for the second bay.
- 3:** Front bezel for the third bay.
- 4:** Front bezel for the fourth bay.
- 5:** Front bezel for the fifth bay.
- 6:** Front bezel for the sixth bay.

The chassis is shown with six bays, each equipped with a front bezel. The bezels are designed to fit into the front of the chassis, which has a series of mounting holes and slots for each bay. The diagram shows the bezels being positioned relative to the chassis frame.

The technical drawing shows a shaft assembly with three main components labeled 1, 2, and 3. The dimensions and tolerances are as follows:

- Component 1:** Length 101,8±0,3; Diameter 12M3.
- Component 2:** Length 101,8±0,3; Diameter 13.
- Component 3:** Length 101,8±0,3; Diameter 13.
- Shaft Dimensions:** Total length 695±0,1; Diameter 118±0,2.
- Other Dimensions:** 77, 11, 13, 118±0,2, 81,5, 25,2, 25,2, 25,2, 25,2.

Technical drawing of a rectangular plate. The overall width is 432. The plate has eight holes arranged in two rows of four. A horizontal red line is drawn across the plate, with green arrows labeled 'A' pointing upwards at both ends. A vertical blue line is drawn at the top right corner, with a green arrow labeled 'A' pointing to the right at its end. The drawing includes a detail view of a hole on the left side, showing its internal structure.

Technical drawing of a three-span continuous beam. The beam is divided into three spans, labeled 4, 5, and 6. The dimensions are as follows:

- Span 4: Total length 101,8; distance from left support to load point 15; distance from load point to right support 15.
- Span 5: Total length 101,8; distance from left support to load point 15; distance from load point to right support 15.
- Span 6: Total length 101,8; distance from left support to load point 15; distance from load point to right support 15.

The beam is supported by four supports. The distance between the first and second support is 104,8. The distance between the second and third support is 25,2. The distance between the third and fourth support is 104,8. The distance from the fourth support to the right end of the beam is 32,8. The beam is subjected to a uniformly distributed load of 10 kN/m across all three spans. The beam is labeled with '4', '5', and '6' in the respective spans. The beam is shown in a perspective view with a cross-section at the right end.



## Optical Splice Enclosure Specification

### ACT Optical High Density Fiber Enclosure

- High strength, low weight, low cost, non-metallic shell
- Suitable for aerial, underground duct or direct burial applications
- Can be used in through, branch or mid span splice locations
- Holds up to 144 splices
- Cable entry/exit ports
- Spacious buffer tube storage system and fiber management trays
- Pressure testing valve and earth deriving device
- Integrated seal, air tight and water proof
- Ideal for cable repair
- RoHS compliant

### Optical Splice Enclosure Specification

| Sealing Structure        | Heat-shrinkable Sealing    | Mechanical Sealing         |
|--------------------------|----------------------------|----------------------------|
| Maximum Splices Capacity | 24 to 144                  | 240                        |
| Core Capacity per Tray   | 24                         | 12, 24, 48                 |
| Cable Ports              | 9                          | 6                          |
| Cable Diameter (max)     | Φ38 mm                     | Φ17 mm                     |
| Dimensions (D × H)       | φ 470 mm × 210 mm          | Φ220 mm × 480 mm           |
| Model Number             | AOP-HSE-9-xx (xx: splices) | AOP-MSE-6-xx (xx: splices) |

### General Specifications

|                             |                        |
|-----------------------------|------------------------|
| Operating Temp              | -40 °C to 85 °C        |
| Storage Temp                | -40 °C to 85 °C        |
| Operating relative humidity | 5 % to 95 %            |
| Weight                      | Various by model types |

*Note: Contact ACT for different packaging options. 8° angle polished for all APC connectors.*

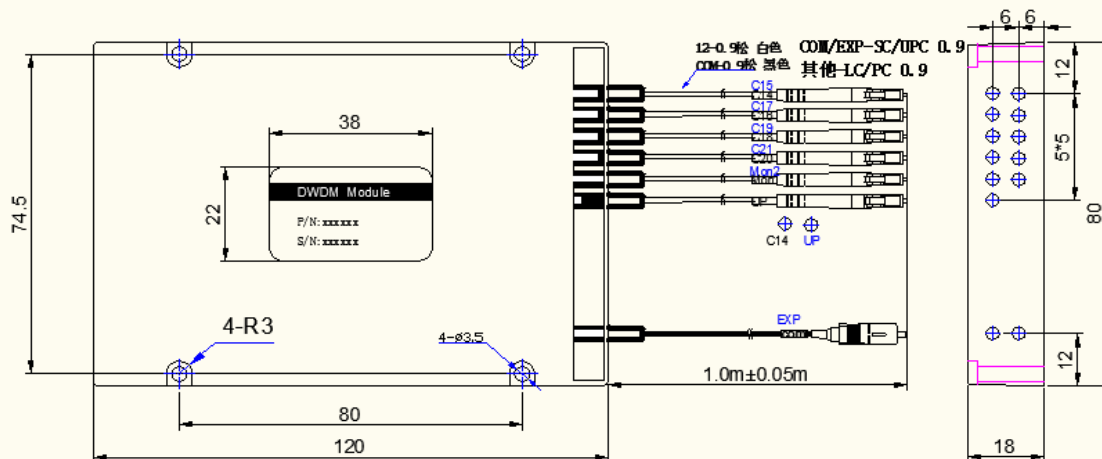


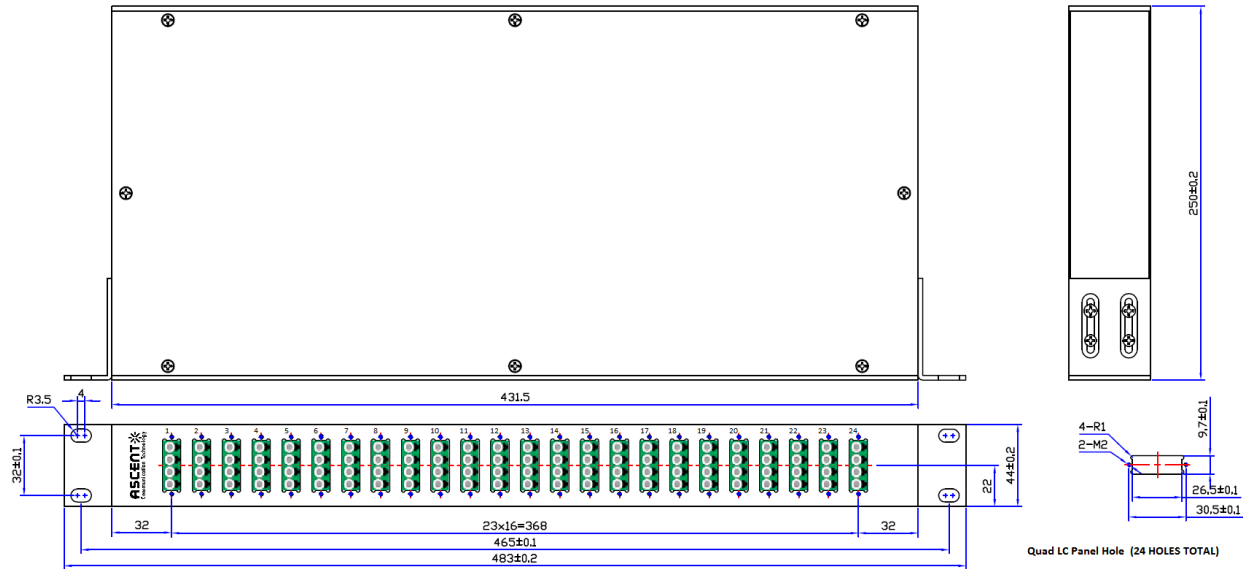
## 8-wavelength Optical MUX/DEMUX

|                                       |  |
|---------------------------------------|--|
| <b>Parameters</b>                     | <b>AOPD-08-A6-1-14-0-F-C</b>   |
| <b>Wavelength Range</b>               | ITU channels 186.6 to 196.1 THz  |
| <b>Channel Center Wavelength</b>      | ITU channels   |
| <b>Channel Spacing</b>                | 100 GHz  |
| <b>Channel Passband (@-0.5dB)</b>     | 0.22 nm  |
| <b>Channel No.</b>                    | 8 $\lambda$  |
| <b>Insertion Loss <sup>1, 2</sup></b> | <b>Mon2 port</b> $\leq 12$ dB<br><b>EXP port</b> $\leq 4.8$ dB<br><b>Else port</b> $\leq 7.8$ dB |
| <b>Adjacent Channel Isolation</b>     | $\geq 30$ dB   |
| <b>Non-adjacent Channel Isolation</b> | $\geq 45$ dB   |
| <b>PDL</b>                            | $\leq 0.30$ dB   |
| <b>Return loss</b>                    | $\geq 45$ dB   |
| <b>Connector Type</b>                 | COM, EXP:SC/UPC; Else: LC/UPC  |
| <b>Operating Temperature</b>          | -10 °C to +70 °C   |
| <b>Storage Temperature</b>            | -40 °C to +85 °C   |
| <b>Relative Humidity</b>              | 5 % to 95 %  |
| <b>Dimension</b>                      | 1U (483 mm $\times$ 250 $\times$ 44.5 mm)  |

Note: <sup>1</sup> Within operating temperature and SOP.

<sup>2</sup> Excluding Connectors. (\*IL is 0.2 dB higher for connector added.)



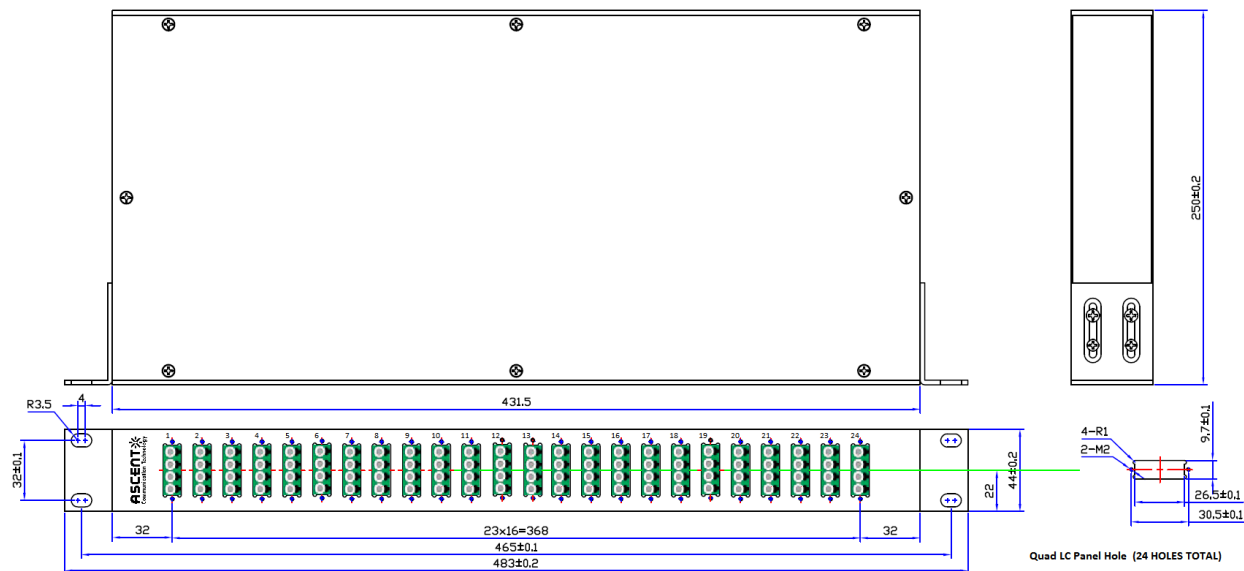


## 12-wavelength Optical MUX/DEMUX

| Parameters                     |           | AOPD-12-A4-1-14-0-F-C                        |
|--------------------------------|-----------|--|
| Wavelength Range               |           | ITU channels 186.6 to 196.1 THz              |
| Channel Center Wavelength      |           | ITU channels                                 |
| Channel Spacing                |           | 100 GHz                                      |
| Channel Passband (@-0.5dB)     |           | 0.22 nm                                      |
| Channel No.                    |           | 12 $\lambda$                                 |
| Insertion Loss <sup>1, 2</sup> | Mon2 port | $\leq 12$ dB                                 |
|                                | EXP port  | $\leq 4.8$ dB                                |
|                                | Else port | $\leq 9.3$ dB                                |
| Adjacent Channel Isolation     |           | $\geq 30$ dB                                 |
| Non-adjacent Channel Isolation |           | $\geq 45$ dB                                 |
| PDL                            |           | $\leq 0.30$ dB                               |
| Return loss                    |           | $\geq 45$ dB                                 |
| Connector Type                 |           | COM, EXP:SC/UPC; Else: LC/UPC                |
| Operating Temperature          |           | -10 °C to +70 °C                             |
| Storage Temperature            |           | -40 °C to +85 °C                             |
| Relative Humidity              |           | 5 % to 95 %                                  |
| Dimension                      |           | 1U (483 mm $\times$ 250 mm $\times$ 44.5 mm) |

Note: <sup>1</sup> Within operating temperature and SOP.

<sup>2</sup> Excluding Connectors. (\*IL is 0.2 dB higher for connector added.)

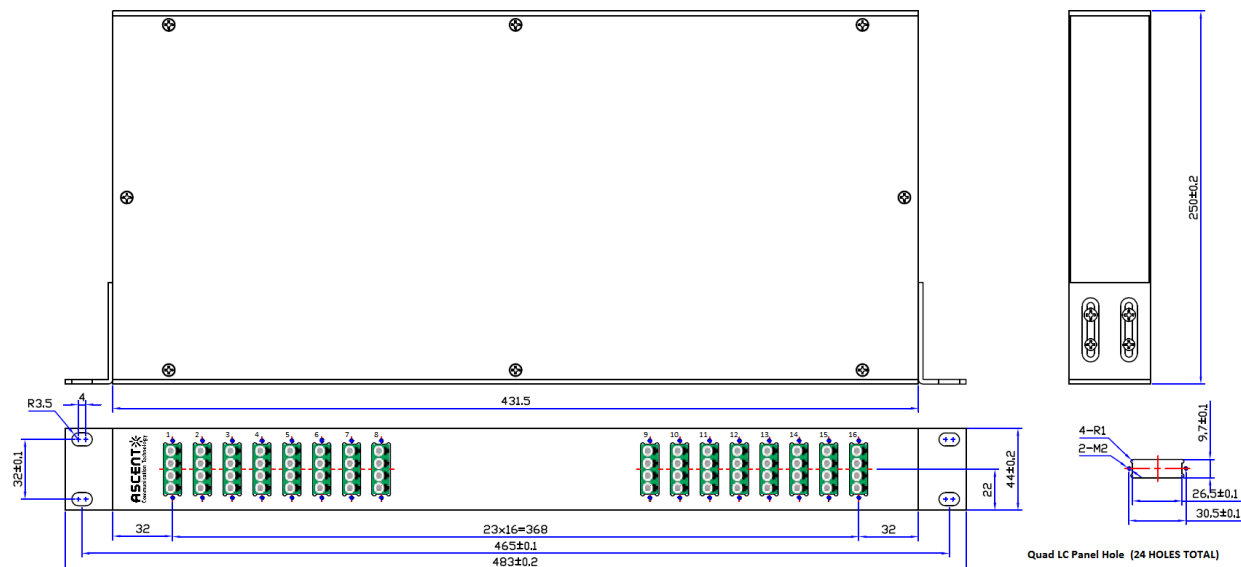
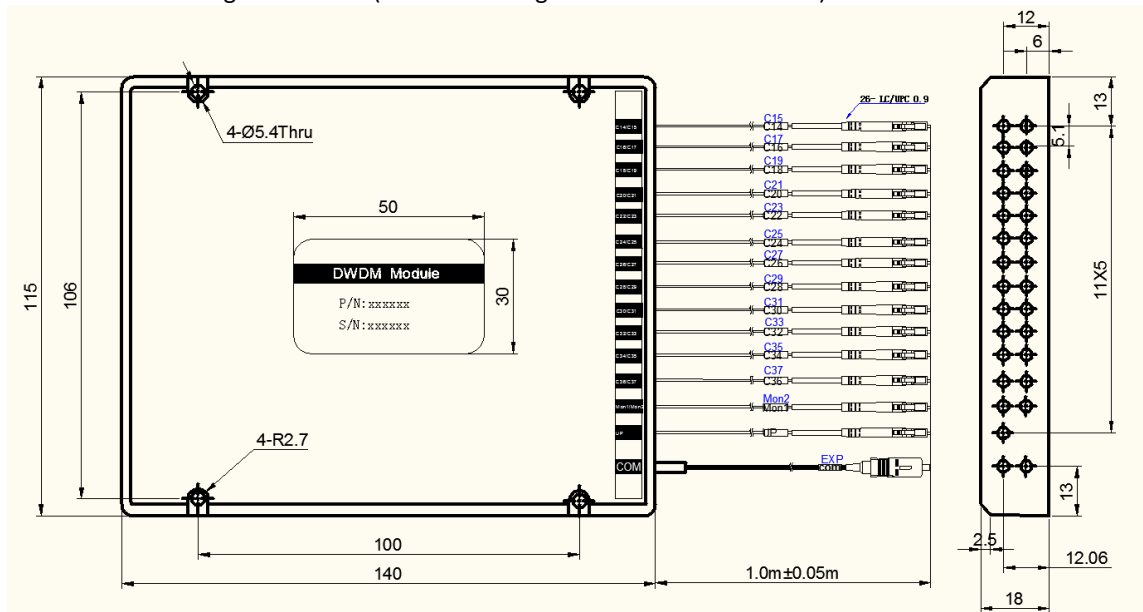


|                                       |                                 |
|---------------------------------------|---------------------------------|
| <b>Parameters</b>                     | <b>AOPD-24-A2-1-14-0-F-C</b>    |
| <b>Wavelength Range</b>               | ITU channels 186.6 to 196.1 THz |
| <b>Channel Center Wavelength</b>      | ITU channels                    |
| <b>Channel Spacing</b>                | 100 GHz                         |
| <b>Channel Passband (@-0.5dB)</b>     | 0.22 nm                         |
| <b>Channel No.</b>                    | 24 $\lambda$                    |
| <b>Insertion Loss <sup>1, 2</sup></b> | <b>Mon2 port</b> $\leq 12$ dB   |
|                                       | <b>EXP port</b> $\leq 4.8$ dB   |
|                                       | <b>Else port</b> $\leq 10$ dB   |
| <b>Adjacent Channel Isolation</b>     | $\geq 30$ dB                    |
| <b>Non-adjacent Channel Isolation</b> | $\geq 45$ dB                    |
| <b>PDL</b>                            | $\leq 0.30$ dB                  |

|                              |                               |
|------------------------------|-------------------------------|
| <b>Return loss</b>           | ≥ 45 dB                       |
| <b>Connector Type</b>        | COM, EXP:SC/UPC; Else: LC/UPC |
| <b>Operating Temperature</b> | -10 °C to +70 °C              |
| <b>Storage Temperature</b>   | -40 °C to +85 °C              |
| <b>Relative Humidity</b>     | 5 % to 95 %                   |
| <b>Dimension</b>             | 1U (483 mm × 250 mm × 44.5mm) |

Note: <sup>1</sup> Within operating temperature and SOP.

<sup>2</sup> Excluding Connectors. (\*IL is 0.2 dB higher for connector added.)



## Accessories Specifications

### ACT Plug-in Optical Attenuators, Patch Cords, Pigtails and Adaptors

#### Optical Attenuator Specification

|                             |  |
|-----------------------------|--|
| <b>Operating Wavelength</b> | 1310 nm $\pm$ 40 nm and 1550 nm $\pm$ 40 nm            |
| <b>Attenuation Level</b>    | XX: 01, 02, 03...30 dB in 1 dB step                    |
| <b>Attenuation Accuracy</b> | $\pm$ 10%  |
| <b>Optical Connector</b>    | AS: SC/APC ; US: SC/UPC; AF: FC/APC or UF: FC/UPC      |
| <b>Model Number</b>         | AOP-ATT-XX-YY (XX: Attenuation; YY: Optical Connector) |



#### Optical Patch Cord Specification

|                          |  |
|--------------------------|--|
| <b>Fiber Type</b>        | 3 mm Single-mode   |
| <b>Fiber Length</b>      | 02: 2m, 05: 5m , 10: 10m, 30: 30m                              |
| <b>Insertion Loss</b>    | $\leq$ 0.5dB   |
| <b>Optical Connector</b> | AS: SC/APC ; US: SC/UPC; AF: FC/APC or UF: FC/UPC              |
| <b>Model Number</b>      | AOP-PCD-XX-YY-ZZ (XX, YY: Optical Connector, ZZ: Fiber Length) |



#### Optical Pigtail Specification

|                          |  |
|--------------------------|--|
| <b>Fiber Type</b>        | 3 mm Single Mode, Connectorized on one end and bare on other |
| <b>Fiber Length</b>      | 02: 2m, 05: 5m , 10: 10m, 30: 30m                            |
| <b>Insertion Loss</b>    | $\leq$ 0.25dB  |
| <b>Optical Connector</b> | AS: SC/APC; US: SC/UPC; AF: FC/APC or UF: FC/UPC             |
| <b>Model Number</b>      | AOP-PGT-XX-ZZ (XX: Optical Connector, ZZ: Fiber Length)      |



#### Optical Adaptor Specification

|                          |   |
|--------------------------|---|
| <b>Optical Connector</b> | AS: SC/APC ; US: SC/UPC; AF: FC/APC or UF: FC/UPC |
| <b>Insertion Loss</b>    | Various by connector types                        |
| <b>Optical Connector</b> | AS: SC/APC ; US: SC/UPC; AF: FC/APC or UF: FC/UPC |
| <b>Model Number</b>      | AOP-ADP-XX-YY (XX, YY: Optical Connector)         |



#### General Specifications

|                                    |                        |
|------------------------------------|------------------------|
| <b>Operating Temp</b>              | -40 °C to 85 °C        |
| <b>Storage Temp</b>                | -40 °C to 85 °C        |
| <b>Operating relative humidity</b> | 5 % to 95 %            |
| <b>Weight</b>                      | Various by model types |

*Note: Contact ACT for different packaging options. 8° angle polished for all APC connectors.*

## Ordering Information

Contact ACT for the complete CWDM/DWDM/WDW/Optical Splitter offerings and other accessories.

### Sample Configuration:

#### AOP-24-U-7-AE-0-9

Coarse Wavelength Division Multiplexer in 19" sub-rack 1RU for 24 x Point to Point (P2P) Active Ethernet lines or EPON/GPON with CATV overlay. SC/APC green angle-polished connectors for CATV and COM Port (CPE Side), SC/PC blue flat-polished connectors for the P2P, PON OLT side.

#### AOP-32-U-7-AE-0-7

Coarse Wavelength Division Multiplexer in 19" sub-rack 1RU for 32 x Point to Point (P2P) Active Ethernet lines or EPON/GPON with CATV overlay. LC/APC green angle-polished connectors for CATV and COM Port (CPE Side), LC/PC blue flat-polished connectors for the P2P, PON OLT side.

#### AOP-DCM-85-AS

ACT 1RU Dispersion Compensation Optical Fiber Module (DCM) 85Km, SC/APC Connector

### AOS-S Optical Splitters (typical part numbers)

|                        |  |
|------------------------|--|
| AOS-S-1-2-L-9XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 9XXXXXX, 50/50 SC/APC     |
| AOS-S-1-2-L-0XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 0XXXXXX, 95/05, SC/APC    |
| AOS-S-1-2-L-1XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 1XXXXXX, 90/10, SC/APC    |
| AOS-S-1-2-L-2XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 2XXXXXX, 85/15, SC/APC    |
| AOS-S-1-2-L-3XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 3XXXXXX, 80/20, SC/APC    |
| AOS-S-1-2-L-4XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 4XXXXXX, 75/25, SC/APC    |
| AOS-S-1-2-L-5XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 5XXXXXX, 70/30, SC/APC    |
| AOS-S-1-2-L-6XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 6XXXXXX, 65/35, SC/APC    |
| AOS-S-1-2-L-7XXXXXX-1  | Optical Coupler, Standard 1x2, LGX Box, Coupling Ratio = 7XXXXXX, 60/40, SC/APC    |
| AOS-S-1-3-L-6XXX9XX-1  | Optical Coupler, Standard 1x3, LGX Box, Coupling Ratio = 6XXX9XX, 34/33/33, SC/APC |
| AOS-S-1-4-L-B000000-1  | Optical Coupler LGX Box 1x4 even balanced SC/APC                                   |
| AOS-S-1-5-L-B000000-1  | Optical Coupler LGX Box 1x5 even balanced SC/APC                                   |
| AOS-S-1-6-L-B000000-1  | Optical Coupler LGX Box 1x6 even balanced SC/APC                                   |
| AOS-S-1-16-F-B000000-1 | Optical Coupler FLAT Box 1x16 Bare Fiber even balanced SC/APC                      |
| AOS-S-1-32-F-B000000-1 | Optical Coupler FLAT Box 1x32 Bare Fiber even balanced SC/APC                      |
| AOS-S-1-64-F-B000000-1 | Optical Coupler FLAT Box 1x64 Bare Fiber even balanced SC/APC                      |

#### AOP-LGX-CH-1RU

AOP Optical LGX Chassis 1RU, 19 inches wide, 6 standard LGX slots

|                       |  |
|-----------------------|--|
| AOPD-08-A6-1-14-0-F-C | Optical MUX/DEMUX; DWDM 100G, 8-wavelength with LC express channel, SCA for COM and EXP ports. 90:10 2x2 coupler with LC Tx MON and Rx MON ports. 6 units combo into a single 1 RU chassis. Starting wavelength C14 , Corning G657A.1 Fiber  |
| AOPD-12-A4-1-14-0-F-C | Optical MUX/DEMUX; DWDM 100G, 12-wavelength with LC express channel, SCA for COM and EXP ports. 90:10 2x2 coupler with LC Tx MON and Rx MON ports. 4 units combo into a single 1 RU chassis. Starting wavelength C14 , Corning G657A.1 Fiber |
| AOPD-24-A2-1-14-0-F-C | Optical MUX/DEMUX; DWDM 100G, 24-wavelength with LC express channel, SCA for COM and EXP ports. 90:10 2x2 coupler with LC Tx MON and Rx MON ports. 2 units combo into a single 1 RU chassis. Starting wavelength C14 , Corning G657A.1 Fiber |

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