

## Optical Passives for HFC, FTTx & DWDM Solutions

---



- Full Line of Optical Passives and Accessories
- WDM/CWDM/DWDM
- Optical Splitters
- Support 1/10/100 GE
- 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, OADM, 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.

## Optical Splitters Specifications 1x2 Unbalanced

ACT Optical Passives Optical Splitters (AOS )

24 Splitter/TAP chassis (Support 1/10/100 GE)

### Optical Specification

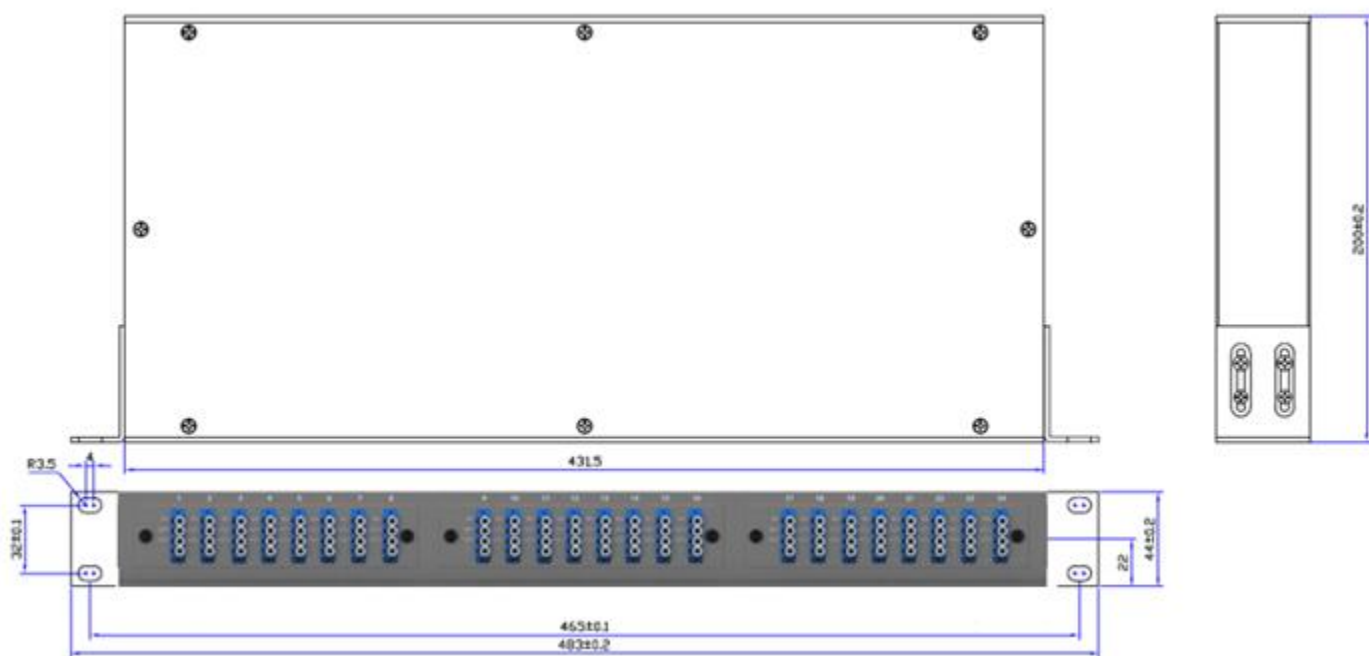
Centre wavelength	1260 nm to 1350 & 1460 to 1620 nm
Configuration	1x2
Channel pass band	1300~1320 & 1540~1560nm
Insertion Loss	2.5/6.6 (70/30 Split )
Directivity	≥ 50 dB
Polarization Dependent Loss	≤ 0.1dB
Return loss	≥ 55 dB
Connectors	SC/APC, SC/PC, LC/APC, LC/UPC
Fiber Types	900um, 2mm, or 3mm

### General Specifications

Operating Temp, °C	-10 to 70
Storage Temp, °C	-40 to 85
Operating relative humidity, %	5 to 95
Dimensions (W x D x H)	1RU
Weight, kg	Weight varies depending on model.

Note: Contact ACT for different packaging options. Losses excluding connector Loss (a pair of connector loss max: 0.4dB)

Drawing Diagram: ACT Optical Passive Shelf 1RU 3x8 Splitter/TAP with LC/PC connector:



## Ordering Information

---

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



## Contact Information

---



### Ascent Communication Technology Ltd

#### AUSTRALIA

140 William Street, Melbourne  
Victoria 3000, AUSTRALIA  
Phone: +61-3-8691 2902

#### CHINA

Unit 1933, 600 Luban Road  
200023, Shanghai CHINA  
Phone: +86-21-60232616

#### EUROPE

Pfarrer-Bensheimer-Strasse 7a  
55129 Mainz, GERMANY  
Phone: +49 (0) 6136 926 3246

#### HONG KONG SAR

Unit 9, 12<sup>th</sup> Floor, Wing Tuck Commercial Centre  
177 Wing Lok Street, Sheung Wan, HONG KONG  
Phone: +852-2851 4722

#### USA

2710 Thomes Ave  
Cheyenne, WY 82001, USA  
Phone: +1-203 816 5188

#### VIETNAM

15 /F TTC Building, Duy Tan Street  
Cau Giay Dist., Hanoi, VIETNAM  
Phone: +84 243 795 5917

**WEB:** [www.ascentcomtec.com](http://www.ascentcomtec.com)

**EMAIL:** [sales@ascentcomtec.com](mailto:sales@ascentcomtec.com)

Specifications and product availability are subject to change without notice.  
Copyright © 2016 Ascent Communication Technology Limited. All rights reserved.

Ver. ACT\_Optical\_Passive\_1x2\_Unbalanced\_Datasheet\_V1h\_Oct\_2016