

IP+RF Video WDM Splitter



AWDM-VIP Series

- **Combined IP and RF video overlay**
- **CATV wavelength: 1539nm to 1565nm**
- **IP-Band wavelength: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm**
- **Low insertion loss and high isolation**
- **High Reliability**

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 AWDM CATV/IP WDM Splitter Series is purpose-built for next-generation FTTH/GPON overlay networks that simultaneously carry traditional RF/CATV video and ultra-high-speed IP data services (GPON/XGS-PON/25G-PON) over a single fiber infrastructure. By employing advanced thin-film filter technology, the modules achieve exceptional isolation between the CATV band and the full IP upstream/downstream spectrum, completely eliminating crosstalk that would otherwise degrade digital TV picture quality or data throughput. All variants deliver extremely low insertion loss on the IP path while maintaining controlled, uniform CATV loss, ensuring stable RF levels across large in-building distribution networks.

ACT wide range of WDM units 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.

Specifications

64 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		1x LC/APC COM IN CATV+IP : 1310/1490/1550/1590/1610nm 1x LC/APC IP OUT: 1310/1490/1590/1610nm 64x LC/APC COM CATV+IP: 1310/1490/1550/1590/1610nm 8x 8 core MPO IP: 1310/1490/1590/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV+ IP1 to IP64 (LC/APC)	dB	Insertion Loss<22.4
IP1 to IP64 (MPO)	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Dimension		19" Rack 1RU, 220mm depth



2x32 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		2x LC/APC COM IN CATV+IP : 1310/1490/1550/1590/1610nm 2x LC/APC IP OUT: 1310/1490/1590/1610nm 2x32x LC/APC COM CATV+IP: 1310/1490/1550/1590/1610nm 2x4 x 8 core MPO IP: 1310/1490/1590/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV+ IP1 to IP64 (LC/APC)	dB	Insertion Loss<18.4
IP1~IP64 (MPO)	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85



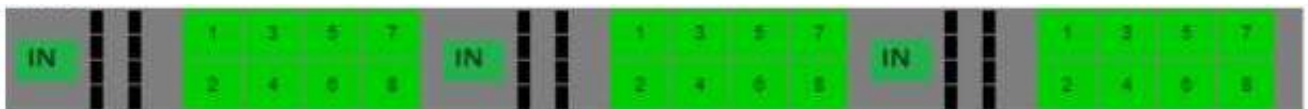
24 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		1x LC/APC COM IN CATV+IP : 1310/1490/1550/1590/1610nm 1x LC/APC IP OUT: 1310/1490/1590/1610nm 24x LC/APC COM CATV+IP: 1310/1490/1550/1590/1610nm 3x 8 core MPO IP: 1310/1490/1590/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV+ IP1 to IP64 (LC/APC)	dB	Insertion Loss<17.7
IP1~IP64 (MPO)	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Dimension		19"Rack 1RU, 220mm depth



3x8 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		3x LC/APC COM IN CATV+IP : 1310/1490/1550/1590/1610nm 3x8 LC/APC COM CATV+IP: 1310/1490/1550/1590/1610nm 3x 8 core MPO IP: 1310/1490/1590/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV+ IP1 to IP64 (LC/APC)	dB	Insertion Loss<11.4
IP1 to IP64 (MPO)	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Dimension		19"Rack 1RU, 220mm depth



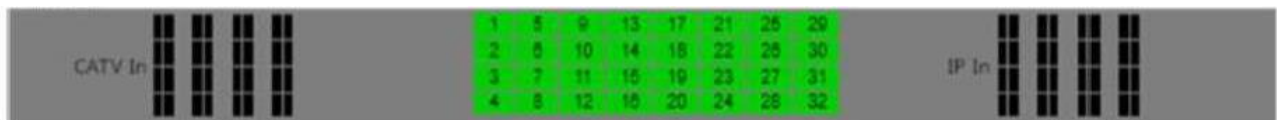
2x24 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		2x LC/APC COM IN CATV+IP : 1310/1490/1550/1590/1610nm 2x LC/APC IP OUT: 1310/1490/1590/1610nm 2x24x LC/APC COM CATV+IP: 1310/1490/1550/1590/1610nm 2x3x8 core MPO IP: 1310/1490/1590/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV+ IP1 to IP64 (LC/APC)	dB	Insertion Loss<17.7
IP1 to IP64 (MPO)	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Dimension		19"Rack 1RU, 220mm depth



32 way Port WDM Splitter

Parameter	Unit	Value
Wavelength		4x8 core MPO CATV IN : 1550nm 32x LC/APC COM CATV+IP: 1310nm/1490nm/1550nm/1590nm/1610nm 4x 8 core MPO IP: 1310nm/1490nm/1590nm/1610nm
Wavelength Range		CATV: 1539nm to 1565nm IP-Band: 1270nm to 1350nm & 1480nm to 1505nm & 1580nm to 1620nm
CATV	dB	Insertion Loss<1.2
IP1 to IP64	dB	Insertion Loss<1.8
Return Loss	dB	>45
PDL		<0.45
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Dimension		19"Rack 1RU, 220mm depth



Ordering Information

Product Name

AWDM-VIP-1x64-R-7M
AWDM-VIP-2x32-R-7M
AWDM-VIP-1x24-R-7M
AWDM-VIP-3x8-R-7M
AWDM-VIP-2x24-R-7M
AWDM-VIP-4x8-R-7M

Product Description

WDM Splitter 64 Port Splitter CATV/IP, MPO, LC/APC
WDM Splitter 2x32 Port Splitter CATV/IP, MPO, LC/APC
WDM Splitter 1x24 Port Splitter CATV/IP, MPO, LC/APC
WDM Splitter 3x1/8 IP, 3xCOM->3x8, MPO, LC/APC
WDM Splitter 2x24 Port Splitter CATV/IP, MPO, LC/APC
WDM Splitter 32 way, 4x8 Port Splitter CATV/IP, MPO, LC/APC

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