

Optical Distribution Solution

Active Splitter

(Complete OBI Elimination)



Licomm's OCA Active Splitter Series eliminates OBI (Optical Beat Interference) in RFoG DOCSIS 3.0 & 3.1 networks.

The 16 or 32 Subscriber RONUs connected to one OCA Active Splitter are completely free from OBI, enabling significant expansion of upstream and downstream capacities.

The OCA series' RF gain-control function can be used to install, operate and monitor the RF level for each port. An additional EDFA slot can boost the downstream signals allowing more RONU nodes or Reach.

Features

- 1x16 or 1x32 standard versions
- Compatible with standard 1550/1610nm RFoG nodes and existing DOCSIS infrastructure (DOCSIS 3.0 and DOCSIS 3.1 Network)
- Provides RF Test Points (-20dB) at each port
- Provides RF Attenuator PAD for gain control at each port
- Dual Power Supply Unit (VAC 110~260 / 60Hz)
- Optional EDFA slots
- Compatible with FTTH PON Wavelength

Benefits

- Elimination of OBI (Optical Beat Interference) in RFoG networks
- Increased Reach & number of Subscriber Nodes from optional amplification

Applications

- CATV HFC networks & RFoG Systems,
- Video Overlay In Passive Optical networks

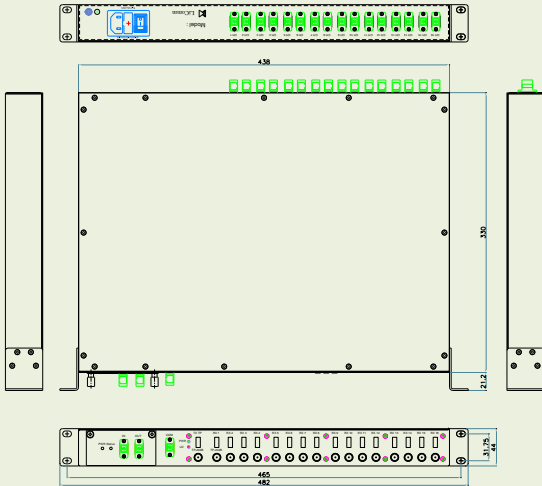
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Mechanical Dimension

(The dimensions are in millimeters)

Size (WxLxH) = 482x351x44



Electrical / Optical characteristics

Parameter	Value	Unit
Supply Voltage	80 ~ 264V	V _{AC}
Operating Temperature Range	0 ~ +50	°C
Power Consumption	10	W
Down Stream		
Optical Output Power with EDFA	+17±1	dBm
Optical input Power with EDFA	0 ~ 10	dBm
Input Wavelength	1550 nm ±7.5	nm
Insertion Loss Uniformity	±1	dBm
Insertion Loss (1X16 Splitters)	< 16	dB
PD Responsivity (@1550nm)	> 0.9	A/W
Optical Input Return loss*	< -40	dB
Up Stream		
input Optical Power	-3 ~ +3	dBm
Output Optical Power	+3±1	dBm
Output Wavelength	1610 nm ±10 nm	nm

* Optical connector type : SC/APC connector

RF Characteristics

Parameter	Value	Unit
Bandwidth	5 ~ 42 / 65 / 85 / 204	MHz
Flatness	2	dB
RF Test Point (RX / TX)	-21.5 ~ -18.5	dB

Ordering Information

OCA	-	XX	-	X	-	XX	-	XX	-	X	-	X	-	XX
Optical Port		RF PAD		Us Frequency		LD Wavelength		DS Wavelength		EDFA				Optical Connector
16, 16 Port		A type		10, 5~42MHz		61.1610nm		N, 1542.5~1557.5nm		E. with EDFA				SA, SC/APC
32, 32 Port		B type		11, 5~65MHz				W, 1540~1565nm		X, w/o EDFA				SP, SC/PC
				12, 5~85MHz										LA, LC/APC
				13, 5~204MHz										

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