High Power Multiport EDFA/PON Combiner

LBAP-2000H SERIES

Lindsay's LBAP-2000H is our new generation 1550 CATV EDFA and PON combiner using an EDFA/EYDFA co-doped fiber amplifier. Each output port of the optical amplifier has a built-in G/EPON WDM filter allowing for convenient pairing with each OLT port. The CATV 1550 nm wavelength is multiplexed with the PON 1310/1490 nm wavelengths within the same chassis allowing for reduced cabling and rack space, while at the same time improving system reliability.

LBAP-2000H
(front angled view)

The LBAP-2000H EDFA/PON combiner is available in a variety of output powers, has multiple outlets, and is powered by dual switching power supplies for redundancy. The multifunction touch screen display monitors parameters, trouble alarms and setup menus. Cost-effective pricing and high performance provide an excellent solution for large coverage FTTH applications.

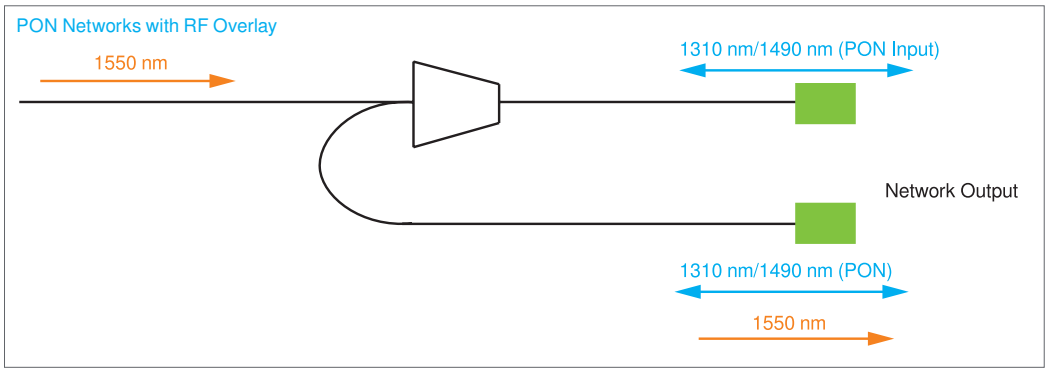
FEATURES

- 1550 nm RF/PON WDM combiner
- LCD total touch screen
- Output Power per Port: 17-21 dBm
- Optional built-in optical switch for (2) 1550 nm inputs
- User-friendly management system
- SNMP/web management GUI
- Optical dual redundant power supply
- Three level cooling system
- Microprocessor overheating protection

LBAP-2000H
(front view)

LBAP-2000H
(rear view)

APPLICATION EXAMPLE



ORDERING INFORMATION

	# of Ports	Output Power per Port (dBm)	1550 nm Connector Type	PON Port Connector Type	COM Port Connector Type	Powering	Power Socket Type	# of Power Supply Modules	Optical Switch
LBAP-2000H -	xx	xx	xx	xx	xx	xx	x	x	xx
	04	18	SA = SC/APC	SA = SC/APC	SA = SC/APC	AC = 100-240 VAC	A = N. America	S = Single	00 = No
	08	19	SU = SC/UPC	SU = SC/UPC	SU = SC/UPC	DC = -48 VDC	B = Europe	D = Dual	OS = Yes
	16	20		LA = LC/APC	LA = LC/APC		C = Asia		
	32	21		LU = LC/UPC	LU = LC/UPC		N = None		
	64								

SPECIFICATIONS

Parameter	Specification
Optical Specifications	
Optical Input Wavelength	1545-1565 nm
Optical Input Power	-10 to +10 dBm
Optional Dual Optical Input (1)	-10 to +10 dBm
Output Optical Power	O/P dBm ±1.0 dB (see ordering information)
Output Power Adjustment Range	0 to -5.0 dB
Port Numbers	4, 8, 16, 32, 64
Output Power Tolerance	±0.5 dB
Port Uniformity	±0.6 dB
Noise Figure (2)	≤ 5.5 dB (4.8 dB typical)
Return Loss Input/Output	≥ 50 dB
Isolation Output ► Input	≥ 40 dB
Polarization Dependence	≤ 0.3 dB
PON Characteristics	
PON Wavelengths	1260-1360 nm (upstream)
	1480-1500 nm (downstream)
Insertion Loss COM ► PON	<1 dB
Isolation CATV ► PON	50 dB @ 1545-1565 nm
Return Loss Input/Output	≥ 50 dB
Power, Environmental & Physical	
Powering (3)	100-240 VAC
	-48 VDC
Power Consumption (Max.) (4)	≤ 80 W
Front Panel Management	3.5” 480 x 320 color touch screen LCD for 2RU & 3RU
	2.4” 320 x 240 color touch screen LCD for 1RU
EMI	EN50083-2
Safety	Laser Class 1M (IEC 60-825-1)
Operating Temperature	-5.0°C to +50.0°C (23.0°F to 122.0°F)
Dimensions (H x W x D)	1RU: 1.75”H x 19.0”W x 17.1”D (4.4H x 48.3W x 43.5D cm)
	2RU: 3.5”H x 19.0”W x 14.9”D (3.4H x 48.3W x 38.0D cm)
	3RU: 5.25”H x 19.0”W x 14.9”D (13.3H x 48.3W x 38.0D cm)

NOTES:

(1) Built-in optical switch for (2) 1550 nm inputs
(2) Noise figure at 0 dB input power, nominal output power & signal wavelength 1550 nm
(3) Optional dual/redundant power supply modules
(4) Max. power consumption based on 64 port, 20 dBm/port