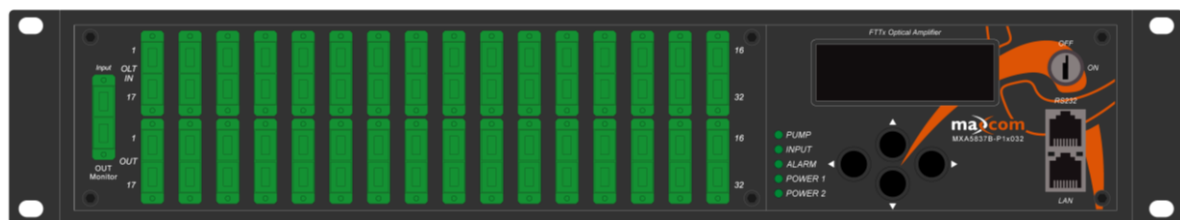
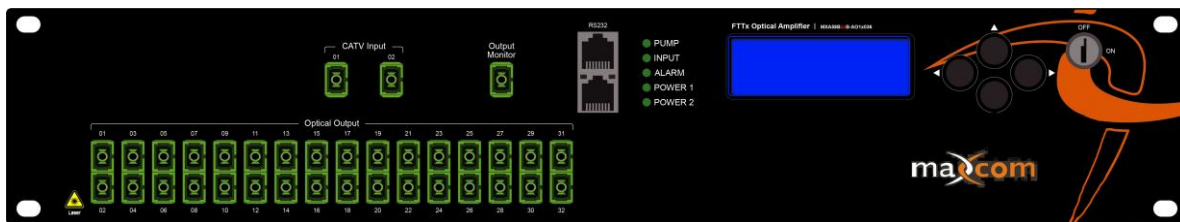
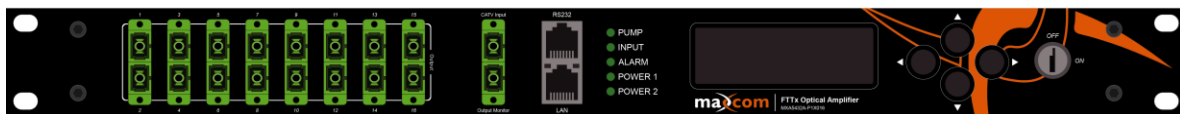




V9

1550NM ERBIUM DOPED FIBER AMPLIFIER · MX-A54 SERIES MULTI-PORT

DATA SHEET



Sample Illustrations of MXA54 Series

Available in several configurations, sizes, and number of output ports



PRODUCT SUMMARY

The Maxcom MXA54 Erbium Doped Fiber Amplifier (EDFA) has been designed for CATV, FTTH and HFC applications. The EDFA is suitable for long haul transmission networks or FTTH distribution networks. This optical amplifier is packaged in a 19" rack mount housing to provide a complete optical communications solution. Maxcom offers our MXA54 platform which can be ordered with 8, 16, 32 and 64 output ports and various output powers.

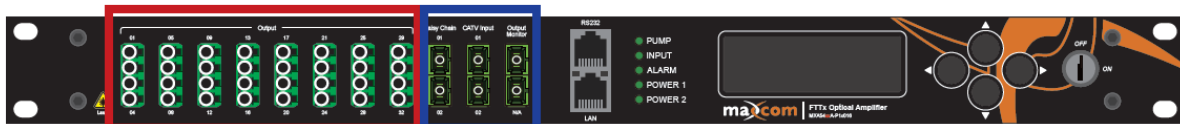
The output power available is from 14 dBm to 23 dBm or may be customized.

The MXA54 series is a high-power multi-port 1550nm EDFA with a gain spectrum band within 1540~1563nm. This series of EDFA offers a flexible and low-cost solution for a CATV system.

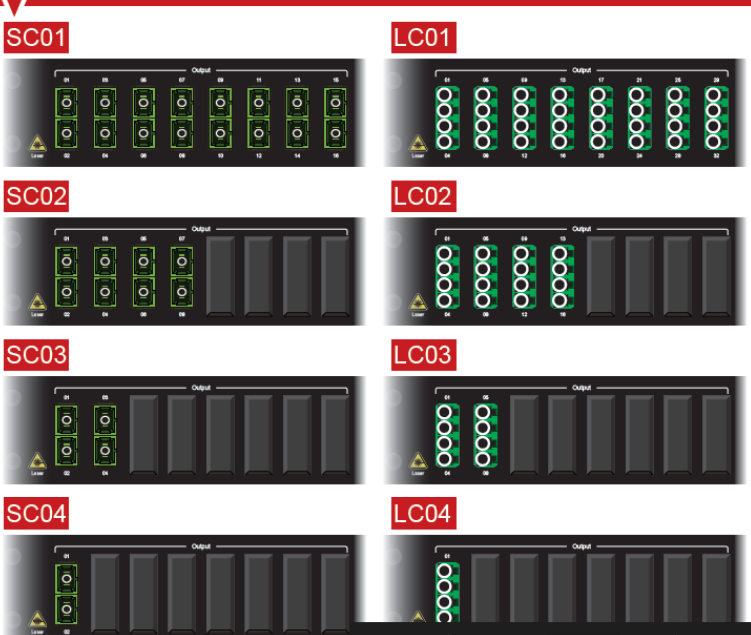
The MXA54 series EDFA's are a high performance, multiple optical output EDFA's designed for analog and digital CATV QAM signals. Maxcom's 1550 optical amplifiers and EDFA's adopt world class pump lasers and American OFS erbium-doped optical fiber components. Excellent APC, ACC and ATC control, superb design in the ventilation and heat-dissipation ensure long life and an exceptionally reliable operation of the pump laser.

The LCD at the front panel offers equipment status and warning alarms. The laser will switch off automatically if optical power is lost, which offers security protection for the laser

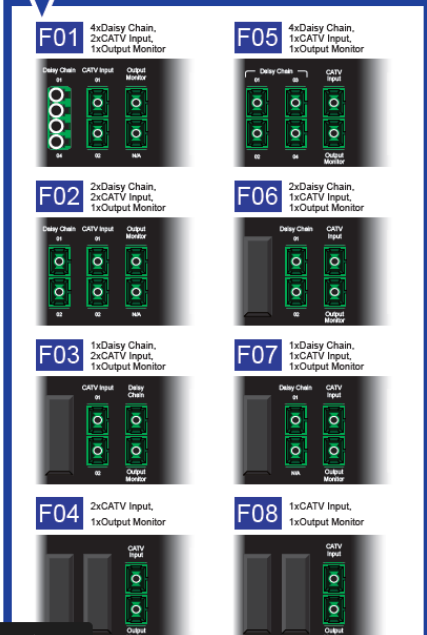
MXA54xxA Series



Optical port layout Optional




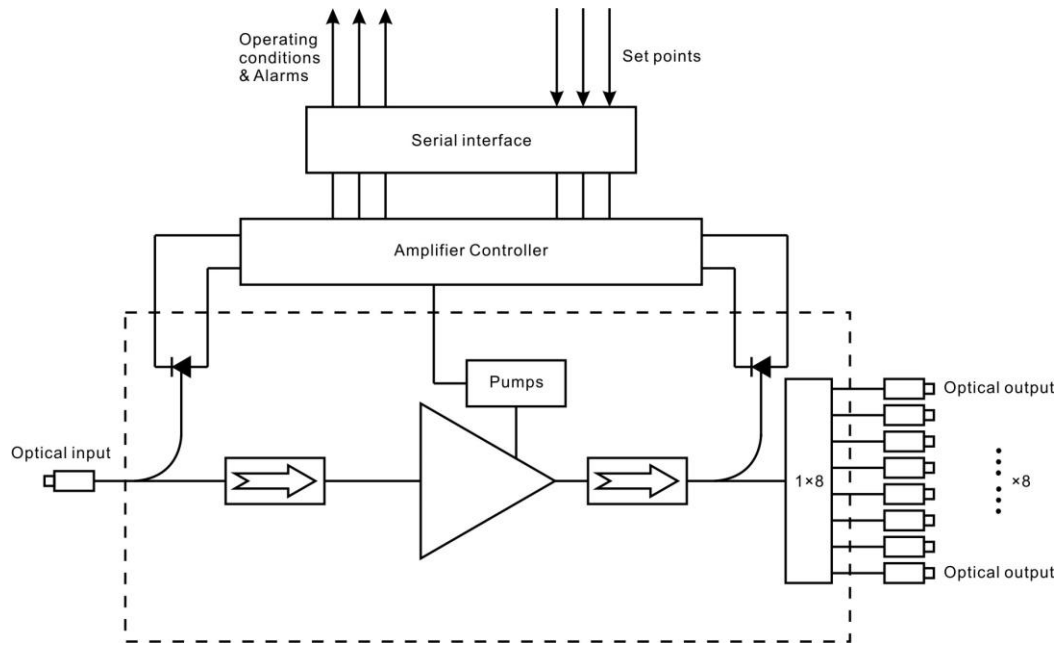
Optional Function



Technical

Technical Index

 Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical feature	Operating wavelength range	(nm)	1540		1563	CATV
	Input power	(dBm)	-5	≥+3	+10	
	Total output power per port	(dBm)	14		23	May be customized
	Number of output ports		4 or 8	16	32	1U, SC/APC standard, LC/APC optional
			16	32	64	2U, SC/APC, LC/APC
	Difference of output power	(dB)	-0.5		+0.5	
	Noise figure (Pin=0dBm)	(dB)			6.3	
	Polarization dependence loss	(dB)			0.3	
	Polarization dependence gain	(dB)			0.4	
	Polarization mode dispersion	(ps)			0.3	
	Input/output isolation	(dB)	30			
	Pump power leakage	(dBm)			-30	
	Echo loss	(dB)	55			APC
General feature	Network management interface		RJ45			SNMP
	Series interface		RS232			
	Power supply Equipped with Dual Hot Swapable PS Modules	(V)	90		265	120VAC standard
			30		72	-48VDC optional
	Power consumption	(W)			150	
	Operating temp.	(°C)	-5		65	
	Storage temp.	(°C)	-40		80	
	Operating relative humidity	(%)	5		95	
	Size (W)×(D)×(H)	(")	19×14.5×1.75			1RU (19")
*Note - contact Maxcom for Outdoor model options	(")	19×15.4×3.5			2RU (19")	



EDFA Model Number Ordering Matrix-North American Market

MXA-	5	4	□□	□ -	□ X	□□□ -	□□ -	□□	- □									
Product Series	Operating Wavelength	Production Type	Output Power (dBm) per port		Exterior		Number of Input Ports		Number of output ports		Output Port Connector type		Power Supply		Daisy Chain Ports +12 dBm ea.			
Model Series	5	1540-1563nm	4	NO WDM PON ports	17	17	A	1RU	1	Single Input (without switch)	004	4 ports	LA	LC/APC	11	100~240 VAC N. American Plug	D	4 Daisy Chain ports
					21	21	B	2RU	2	Dual Input (With Switch)	008	08 ports	SA	SC/APC	22	100~240 VAC European Plug	Blank	No Daisy Chain ports
			**	Custom dBm			C	3RU			016	66 ports			48	-48VDC		
			Available Output Power Range: +15 to +23 dBm								032	32 ports			42	1 each combo AC and DC		
											064	64 ports						

Please consult with your Maxcom Rep for ordering options,

*Note - Some options only available of certain chassis or models

*Notes:

Output Monitor port - Included
 Adjustable Output feature - Included
 Dual Hot Swappable Power Supplies - Included
 SNMP - Web GUI access - Included

All units come standard with SC/APC connectors for **input, monitor, and daisy chain ports**.
 Output ports come standard with SC/APC



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