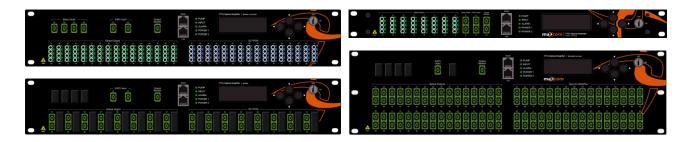


## Example Illustrations of Multiple MXA5 EDFA Configurations:



\*Also available without PON ports

Legendary Reliability and Performance

## **PRODUCT SUMMARY**

The MXA5 series is a low noise, high performance, FTTx high power multi-port optical amplifier with a gain spectrum band within 1540~1563nm. Each output port for the optical amplifier has built-in high performance CWDM PON port to conveniently connect with an OLT. Each of the 1550nm (CATV)'s output optical ports will multiplex 1310/1490nm and 1270/1577nm wavelengths from an external OLT, reducing the quantity of the components and improving the performance and reliability of the system. Models are also available with an option to pass 1610nm RFoG wavelengths.

The MXA5 Series has an extremely low noise figure. The unit adopts twin-stage amplification, the pre-amplifier adopts a low noise EDFA, and the output cascade adopts high power EYDFA technology. When the input optical power PIN is OdBm, the noise figure of the unit is: Typ  $\leq$ 4.5dB, Max  $\leq$ 5.0dB unlike other manufactures which need higher optical power input to maintain lower noise figures.

The MXA5 Series optical amplifier incorporates world class pump lasers and American made OFS erbium-doped optical fiber. Superb APC, ACC, and ATC control, coupled with excellent design in the ventilation and heat-dissipation ensure a long life and exceptionally reliable operation of the pump laser. RS232 and RI45 offer serial communication and SNMP network management ports.

The MXA5 Series LCD located on the front panel offers access to all equipment indexes and warning alarms. A WEB GUI interface is also available for operators preferring remote access and visibility.

Maxcom EDFA's offer a flexible wide range optical input between -5 to +10 dBm.

For safety and protection of the laser components, the laser will automatically switch off if input optical power is interrupted.

The MXA5 Series offers carrier-class reliability and network security management, high quality, superb reliability, and excellent cost performance are ideal for system integrators and system operators.

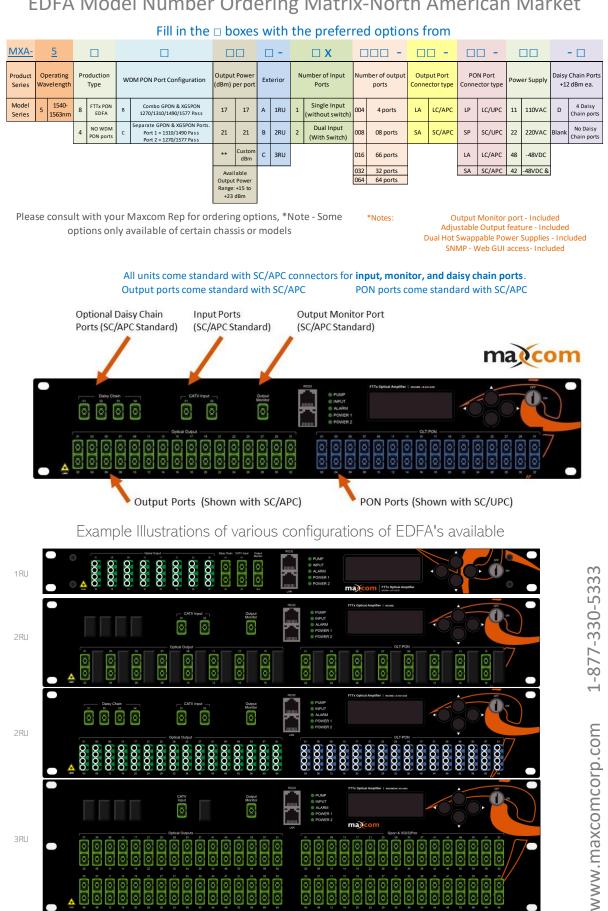
The MXA5 Series optical amplifiers are available with output power of +15 to +23 dBm per output port. Standard units come in 4, 8, 16, 32, and 64 port configurations. Units come with xPON ports to match the number of output ports. Optional daisy chain ports are also available providing for simple scalability as your network grows.

The MXA5 Series is also available with a built in 2x1 optical switch with auto detection and switching when two optical inputs are used in cases where fiber route redundancy is critical.

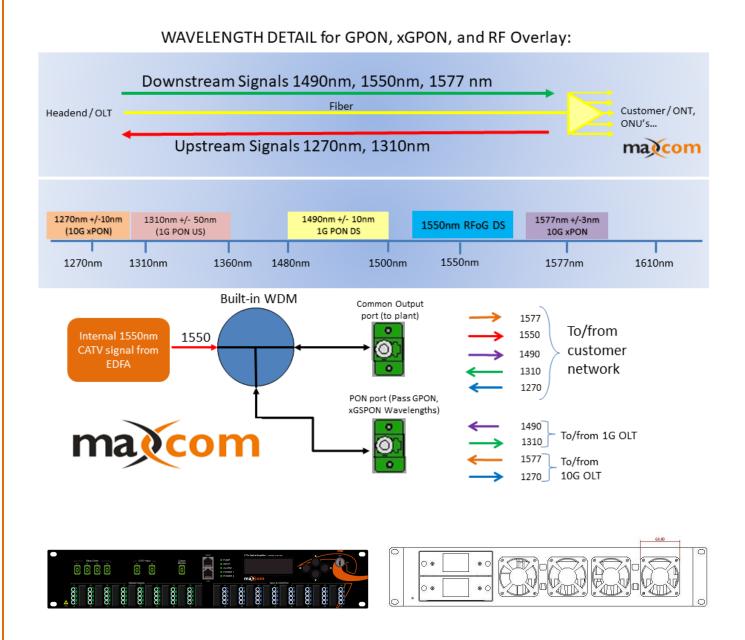
Fiber connector types may be customized for operator requirements using SC/APC, SC/UPC, LC/APC, and LC/UPC All MXA5 Series EDFA's come equipped with Dual Hot Swapable AC or DC power supplies.



Performance Specifications				Index				
			Mi	n.	Typ. Max		1ax.	– Supplemental
Optical features	CATV operation wavelength	(nm)	15	40		1	.563	CATV
	OLT pass wavelength	(nm)			1310/149 1270/15	16	10nm	GPON XGSPON
	CATV pass wavelength loss	(dB)					0.8	1550nm
	OLT pass wavelength loss	(dB)					0.8	1310/1490nm 1270/1577nm
	CATV & OLT isolation	(dB)	4	0				
	Number of uplink optical ports (for OLT)	(pcs)	2	1			64	Based on Model
	CATV input power	(dBm)	-,	-5		-	+10	
	Output power per port	(dBm)	1	5			23	Based on Model
	Number of output ports	(pcs)	2	1	32		64	Based on Model
	Difference of each output power	(dB)	-0	.5		+	+0.5	
	Output optical power monitoring	(dB)			-20			
	Output power adjustable range	(dBm)	-	6			0	
	Daisy Chain Output Power (per port)	(dBm)	+:	11	+12	+	12.5	Fixed Value, Optional
	Number of Daisy Chain port		1	L			4	Optional
	Noise figure	(dB)	4.	.0	4.5/5		6.0	
	Switch time (with auto optical input switch)	(ms)				:	8.0	
General features	Network management interface			WEB				RJ45, SNMP Optional
	Serial interface			RS232				Optional
	Power supply	(V)	90			265	5	110VAC
			36			72		-48VDC
	Power consumption	(W)				84		
	Operation temp.	(°C)	-5			65		
	Storage temp.	(°C)	-40			80		
	Relative humidity	(%)	5			95		
	Size (W)×(D)×(H)	(") mm		19×14.7×3.5 482.6x300x88mm			Standard 2 RU Model	



## EDFA Model Number Ordering Matrix-North American Market



**Warranty** Maxcom provides a 2-year warranty on the MXA5 series EDFA. Warranty is from date of purchase. Additional warranty details are available from Maxcom or your Sales Partner.

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