

# COMMSCOPE FA3527M, FA3530M, FA3533M

## HIGH PERFORMANCE, MULTIPOINT OPTICAL AMPLIFIERS

The COMMSCOPE FA3527M, FA3530M, and FA3533M are high performance, multipoint 1550 nm optical amplifiers. The high power output of these amplifiers is ideally suited for video distribution in RFoG and RFPON network architectures. In RFoG applications, the 8-port FA3527M and 8-port FA3530M EDFA at the headend amplifies and distributes the 1550 nm broadcast video signal to over 250 residential customers, over 8 typical RFoG network segments, each with 32 connected endpoint devices. Comparably, the 16-port FA3533M amplifies and distributes the 1550 nm broadcast signal to over 500 customers over 16 typical RFoG network segments, each with 32 connected endpoint devices.



- High-power, multipoint EDFAs for RFoG and RFPON applications
- FA3527M: Up to 18dBm output power to each of 8 ports
- FA3530M: Up to 21dBm output power to each of 8 ports
- FA3533M: Up to 21dBm output power to each of 16 ports
- Front panel laser On/Off interlock switch
- Hot plug-in/out
- Local and remote status monitoring and control

## SPECIFICATIONS

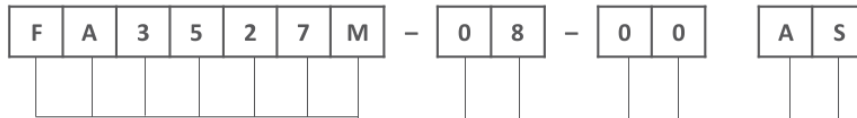
PHYSICAL		GENERAL	
Dimensions (without connectors)  Three-slot wide versions of FA3530M and FA3533M  Four-slotwide versions of FA3527M and FA3533M	13.0" D x 4.3" H x 3.0" W (3RU) (33 cm x 11cm x 7.5cm)	Modes of operation	constant current
		Output power alignment	manual
		Hot plug-In/Out	
	OPTICAL INTERFACE		
	Optical connector		
	Three-slot wide versions of FA3530M and FA3533M	LC/APC (at Back Plate BP-F14 for FA3530M or BP-F12 for FA3533M)	
Four-slotwide versions of FA3527M and FA3533M	SC/APC (at Back Plate BP-F11 for FA3527M or BP-F10 for FA3533M)		
OPTICAL			
ENVIRONMENTAL		Input signal wavelength	1540–1565 nm
Operating temperature range	0°to +50°C (32°to 122°F)	Input power range	–10 to +10 dBm
Storage temperature range	–40° to +85°C (–40° to 185°F)	Optical signal path isolation	> 30 dB
Humidity	5% to 95% non-condensing	Output power stability	±0.3 dB
		Output power adjustment range	–3.0 dB from nominal output power, min

PERFORMANCE PARAMETERS			
Model Number	Power		
	Output Power, nominal (dBm)	Consumption, max (Watts)	Noise Figure, max <sup>1</sup> (dB)
FA3527M	8 x 18	50	6.0
FA3530M	8 x 21	40	6.5
FA3533M	16 x 21	80	6.5

NOTE:

1. Measured optically at 0 dBm input,  $\lambda = 1550$  nm in vacuum,  $T_A = 25^\circ\text{C}$

## ORDERING INFORMATION



Multiport Fiber Amplifier (EDFA)

8 Ports

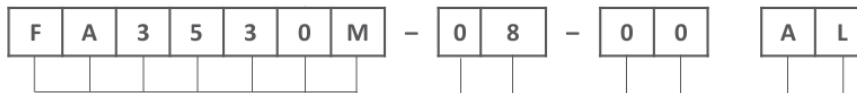
Reserved Fields

AS = SC/APC Connectors

Required Module Back Plate



(Included with module)



Multiport Fiber Amplifier (EDFA)

8 Ports

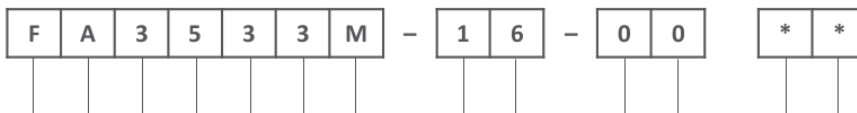
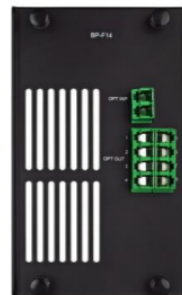
Reserved Fields

AL = LC/APC Connectors

Required Module Back Plate



(Included with module)



Multiport Fiber Amplifier (EDFA)

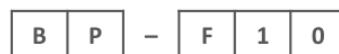
16 Ports

Reserved Fields

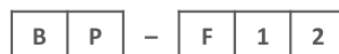
\* AS = 4-slot wide version, SC/APC Connectors,

\* AL = 3-slot wide version, LC/APC Connectors

Required Module Back Plates



(Included with FA3533M-16-00-AS module)



(Included with FA3533M-16-00-AL module)

