

## FEATURES

- High-power, multiport EDFA for RFoG and RFPON applications
- Up to 21 dBm output power to each of 8 ports
- Front panel laser On/Off key lock switch
- Hot plug-in/out
- Local and remote status monitoring and control

The CommScope FA3530M is a high performance, multiport 1550 nm optical amplifier. The high-power output of this amplifier is ideally suited for video distribution in RFoG and RFPON network architectures.

In RFoG applications, the 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.

The compact multiport module is installed and managed side by side in the same chassis as other required equipment. The FA3530M can connect directly to two of the CommScope OR3144H RFoG Diplexer/Return Receiver modules to complete your RFoG solution. The FA3530M can also be used with the AR3044H Receiver and the appropriate RFoG filter optical passive. This greatly simplifies the management of headend and hub deployments for RFoG, RFPON, and FTTH networks.



## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions (without Connectors)	
Three-slot wide	13.0" D x 4.3" H x 3.0" W (3RU) (33 cm x 11 cm x 7.5 cm)
Weight	5.0 lbs (2.3 kg)
<b>Environmental</b>	
Operating Temperature Range	0° to +50°C (32° to 122°F)
Storage Temperature Range	-40° to +85°C (-40° to 185°F)
Humidity	5% to 95% non-condensing
<b>General</b>	
	Hot plug-in/out
Modes of Operation	Constant current
Output Power Adjustment	Manual
<b>Optical Interface</b>	
Optical Connector	LC/APC located on Back Plate BP-F14
<b>Optical</b>	
Input Signal Wavelength	1540 to 1565 nm
Input Power Range	-10 to +10 dBm
Optical Signal Path Isolation	30 dB Min
Output Power Stability	± 0.3 dB
Output Power Adjustment Range	0 to -3.0 dB from nominal output power
<b>Performance Parameters</b>	
Output Power, Nominal	8x21 dBm
Power Consumption, Max	40 Watts
Noise Figure, Max <sup>1</sup>	6.5 dB

**NOTE:**

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

## ORDERING INFORMATION

Model Name	Description
FA3530M-08-00-AL	Multiport Fiber Amplifier (EDFA), 8 Ports, LC/APC Connectors, with BP-F14 Back Plate

**Required Module Back Plate: BP-F14**  
Included with FA3530M-08-00-AL module



## RELATED PRODUCTS

CH3000 Chassis	AR3044H Receiver
Optical Transmitters	OR3144H RFoG Diplexer
Optical Passives	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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**Note:** Specifications are subject to change without notice.

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