

## Features

- High-power, multiport EDFA for RFoG and RFPON applications
- Up to 21 dBm 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

## High Performance, Multiport Optical Amplifier



Advance  
Notice

The Aurora Networks FA3533M is a high performance, multiport 1550 nm optical amplifier. The high power output of the FA3533M is ideally suited for video distribution in RFoG and RFPON network architectures. In RFoG applications, this 16-port module at the Headend amplifies and distributes the 1550 nm broadcast video signal to over 500 residential customers over sixteen typical RFoG network segments, each with 32 connected endpoint devices.

The compact multiport modules are installed and managed side by side in the same chassis as other required equipment. The EDFA can connect directly to four of the Aurora OR3144H RFoG Diplexer/Return Receiver modules to complete your RFoG solution. This greatly simplifies the management of headend and hub deployments for RFoG, RFPON, and FTTH networks.

### Physical:

- Dimensions: 13.0" D x 5.25" H x 4.0" W (3RU)  
(33 cm x 13.3 cm x 10.2 cm)
- Weight: 5.0 lbs (2.3 kg)

### Environmental:

- 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

### General:

- Hot plug-in/out
- Mode of operation: constant current
- Output power alignment: manual

### Optical Interface:

- Optical connector: SC/APC (at Back Plate BP-F10)

### Optical:

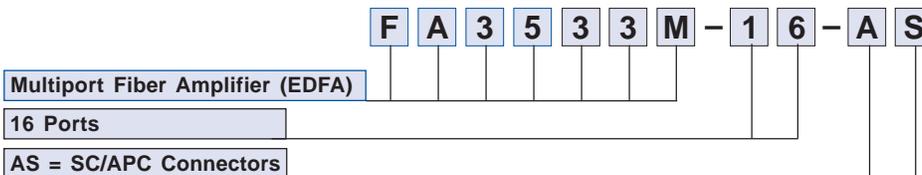
- Input signal wavelength: 1540–1565 nm
- Input power range: -10 to +10 dBm
- Optical signal path isolation: >30 dB
- Output power stability: ±0.3 dB
- Output power margin: 0.3 dB (at 0 dBm input)
- Output power adjustment range: -3.0 dB (from nominal output power, minimum)

### Performance Parameters:

Model Number	Output Power, nominal (dBm)	Power	
		Consumption, max (Watts)	Noise Figure, max <sup>1</sup> (dB)
FA3533M	16 x 21	80	6.0

<sup>1</sup> Measured optically at 0 dBm input, λ = 1550 nm in vacuum, T<sub>A</sub> = 25°C.

## Ordering Information



### Required Module Back Plate

**B P - F 1 0**

(included with module)



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