

Headend Optics Platform (CH3000)

FA3530M, FA3533M

High Performance, Multiport Optical Amplifiers

FEATURES

- High-power, multiport EDFAs for RFoG and RFoG applications
- Two models:
 - FA3530M: Up to 21 dBm output power to each of 8 ports
 - FA3533M: 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



FA3533M-16-00-AL

PRODUCT OVERVIEW

The ARRIS FA3530M and FA3533M are high performance, multiport 1550 nm optical amplifiers. The high power output of these amplifiers is ideally suited for video distribution in RFoG and RFoG 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. 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.

The compact multiport modules are installed and managed side by side in the same chassis as other required equipment. The FA3530M can connect directly to two of the ARRIS OR3144H RFoG Diplexer/Return Receiver modules (while the FA3533M can support up to four of the same modules) to complete your RFoG solution. These modules 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 | | |
|---|---|--------------------------|-------------------------------------|
| Physical | | | |
| Dimensions (without connectors) | | | |
| Three-slot wide versions of FA3530M and FA3533M | 13.0" D x 4.3" H x 3.0" W (3RU) (33 cm x 11 cm x 7.5 cm) | | |
| Four-slot wide version FA3533M | 13.0" D x 4.3" H x 4.0" W (4RU) (33 cm x 11 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 | | | |
| Modes of operation | constant current | | |
| Output power alignment | manual | | |
| 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-slot wide version FA3533M | SC/APC (at Back Plate BP-F10 for FA3533M) | | |
| 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 adjustment range | -3.0 dB (from nominal output power, min) | | |
| Performance Parameters | | | |
| | | Power | |
| Model Number | Output Power, nominal (dBm) | Consumption, max (Watts) | Noise Figure, max ¹ (dB) |
| FA3530M | 8x21 | 40 | 6.5 |
| FA3533M | 16x21 | 60 ² | 6.5 |

NOTES:

1. Measured optically at 0 dBm input, $\lambda = 1550$ nm in vacuum, $T_A = 25^\circ\text{C}$
2. Older FA3533M revisions (rev K or earlier): 80 W max

RELATED PRODUCTS

| | |
|----------------------|-----------------------|
| CH3000 Chassis | Optical Patch Cords |
| Optical Transmitters | OR3144H |
| AR3044H | Installation Services |

ORDERING INFORMATION



Multiport Fiber Amplifier (EDFA)

8 Ports

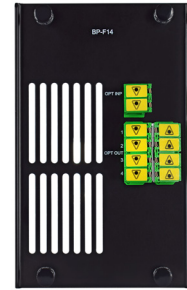
Reserved Fields

AL = LC/APC Connectors

Required Module Back Plate



(Included with FA3530M-08-00-AL 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)



Customer Care

Contact Customer Care for product information and sales:

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

Note: Specifications are subject to change without notice.

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