

# Rack Mount EDFA

## FTT-EDFA Multiport FTTMax<sup>®</sup> Erbium Doped Amplifiers (EDFA)

### FEATURES

- Enables quality RF video overlays with PON data networks
- Multi-Output Option up to 36 Ports for dense applications
- Up to 21 dBm Per Port Output Power
- Space-Efficient 1 or 2RU Rack Mount Packages for headend space savings
- Optional integrated CWDM passives
- Optimized for Fiber to the Premise (FTTP) networks



### PRODUCT OVERVIEW

For service providers that are looking to provide high quality broadcast video over a PON network, the FTT-EDFA offers a robust and reliable optical amplification solution using RF video overlay. The 1 or 2RU rack-mounted FTT-EDFA for a headend or hub/OTN installation is optimized for low noise, clear transmission of video, voice, and data signals. The FTT-EDFA is designed to simplify applications by providing integrated element management capability and by reducing rack space and power requirements.

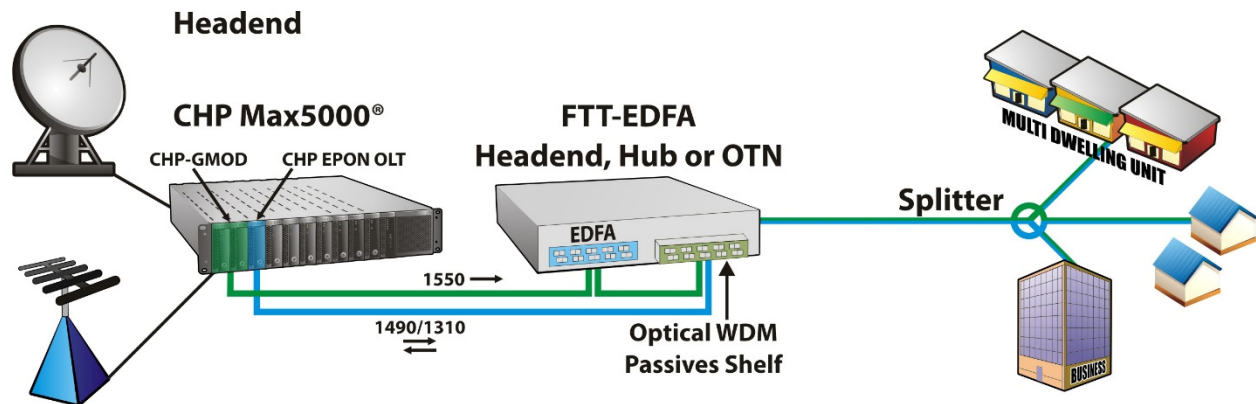
These space-efficient rack-mount amplifiers are available in both single optical channel and up to 36 multiple output configurations with each port providing up to 21 dBm output power in the 1550 nm band.

CWDM passives can be integrated into the EDFA to allow muxing of the 1490 nm downstream and 1310 nm upstream data from the OLT with the 1550 nm video stream. This option eliminates the WDM passive shelf, reducing component count and improving system performance.

The multimode side-pump technology increases power scalability while reducing component count. The EDFA combines pumps in a high-power, redundant design with intrinsic “soft-fail” characteristics, providing the multi-layered reliability required in a network building block.

FTTMax EDFAs offer integrated monitoring and configuration control through a craft interface. Remote management is accessible through the Simple Network Management Protocol (SNMP) interface for external connection to the CORView™ Element Management System. Energy efficient internal components and effective thermal design keep optical components cool to ensure effective, reliable performance. These rack mounted units are also available in a hardened configuration that is designed to operate in outside cabinets.

## Typical Application for RF Video Overlay Over a Fiber Network



### RELATED PRODUCTS

CHP Chassis	Optical Patch Cords
Power Supplies	Optical Passives
Management Module	Installation Services

## SPECIFICATIONS

### Electrical

Number of Ports	4, 16, 20, 28, or 36
Output Power per Port	CWDM models: 19.5 dB -0/+1.4 to 1.8 dB Non-CWDM models: 21.0 dB -0/+0.5 to 1.8 dB
Port-to-Port Variation	0.25 to 1.5 dB maximum
Monitor Port Output Power	0 to 3 dBm maximum
Operating Wavelength Range	1540 to 1560 nm standard
Composite Input Power Range	- 0 dBm minimum, 12 dBm maximum
Noise Figure (Pin = +6 dBm)	4.5 dB maximum
Carrier-to-Noise Degradation (CNR)	1 dB typical
Power Consumption	40 W typical, 80 W maximum
Port Residual Pump Power	-20 dBm maximum

### Mechanical

Dimensions	1RU: 19.01 x 13.47 x 1.73 in (483 x 342 x 44 mm) 2RU: 19.01 x 13.47 x 3.46 in (483 x 342 x 88 mm)
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### Environmental

Temperature, Operating	0 to 122°F (0 to 50°C)
Temperature, Storage	-40 to 185°F (-40 to 85°C)
Humidity, Operating	10 to 85%
Humidity, Storage	10 to 95%

## ORDERING INFORMATION

To configure a product that meets your specific needs, or for any questions, please contact your ARRIS Sales Professional. You may also use our Product Wizard, located at [support.arris.com](http://support.arris.com) (User ID and password required). If you do not have a user ID and password or have forgotten your password, please use the Sign In Help section indicated.

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

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