

# Rack Mount EDFA

## N1U-OA600 Series

### Gain Flattened Optical Amplifiers for HFC Networks

## FEATURES

- Flat gain for multiwavelength DWDM applications from 1530 nm to 1563 nm
- Space efficient 1RU design maximizes headend rack space
- Nominal output powers of up to +23 dBm
- Constant Output Power and Constant Gain Modes
- Front Panel Key Switch for pump on/off control
- Dual power supplies for system redundancy



## PRODUCT OVERVIEW

The ARRIS OA600 Series of erbium-doped optical amplifiers support multiple downstream multiwavelength applications for HFC networks. The OA600 series accommodates a range of link budgets and launch powers. Featuring a wide range of output power, the amplifiers can support a wide range of system design requirements, including Constant Output Power mode to maintain exact optical levels and Constant Gain mode for DWDM applications. The OA600 series also offers stand-alone high density within a 1RU size, an SNMP interface for network management, and Quick-Swap power supply and fan module capability.

## System Applications

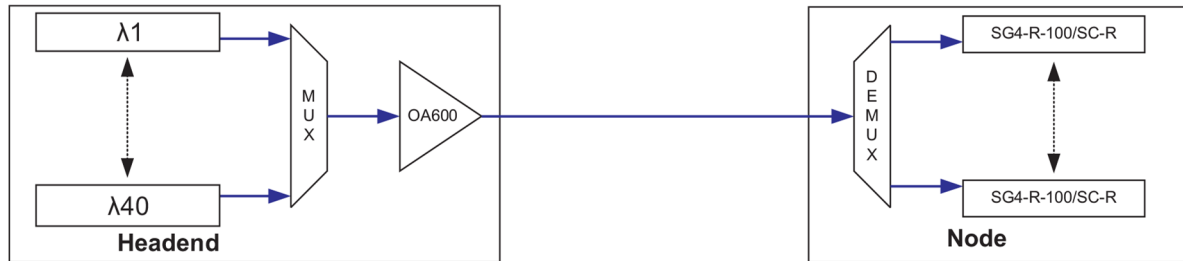


Figure 1: Multiwavelength Gain Flattened Optical Amplification

### GENERAL SPECIFICATIONS

#### Optical

Optical Wavelength	1530 nm to 1563 nm
Operating Input Power	-10 to +0 dBm, -10 to +7 dBm, -10 to +10 dBm (depending on model)
Output Power Stability over temperature	± 0.25 dB
Gain options	7 to 13 dB options
Optical Return Loss	50 dB Minimum
Optical Connector Type	SC/APC
Optical Monitor Port	Yes

#### Performance

Optical Noise Figure	6 dB
Preset optical Gain	7, 10, 13 dB (depending on model)
Multitone Gain Flatness	± 0.75 dB

#### General

Dimensions	18.84 in W x 1.72 in H x 15 in D (47.8 cm x 4.4 cm x 38.0 cm)
Mounting	19 inch standard rack (1RU)
Operating Temperature Range	-10° C to 55° C (14° F to 131° F)
Storage Temperature Range	-40° C to 80° C (-40° F to 176° F)
Power Consumption	30 W typical
Input Voltage Range (AC)	100 to 240 VAC
Input Voltage Range (DC)	-36 to -72 VDC
Status Monitoring	SNMP 10BaseT Ethernet interface through and RJ-45 data port

Ordering Information

Part #	Model Name	Description
575656-001-00	N1U-OA613N13-2AS-R	N1U-OA613N13-2AS-R, AGC-EDFA, 13 dB nominal gain, +13 dBm output power, AC power, SC/APC optical connectors, finished good
575656-002-00	N1U-OA613N13-2DS-R	N1U-OA613N13-2DS-R, AGC-EDFA, 13 dB nominal gain, +13 dBm output power, DC power, SC/APC optical connectors, finished good
575656-003-00	N1U-OA613N23-2AS-R	N1U-OA613N23-2AS-R, AGC-EDFA, 13 dB nominal gain, +23 dBm output power, AC power, SC/APC optical connectors, finished good
575656-004-00	N1U-OA613N23-2DS-R	N1U-OA613N23-2DS-R, AGC-EDFA, 13 dB nominal gain, +23 dBm output power, DC power, SC/APC optical connectors, finished good
575656-005-00	N1U-OA610N17-2AS-R	N1U-OA610N17-2AS-R, AGC-EDFA, 10 dB nominal gain, +17 dBm output power, AC power, SC/APC optical connectors, finished good
575656-006-00	N1U-OA610N17-2DS-R	N1U-OA610N17-2DS-R, AGC-EDFA, 10 dB nominal gain, +17 dBm output power, DC power, SC/APC optical connectors, finished good
575656-007-00	N1U-OA607N17-2AS-R	N1U-OA607N17-2AS-R, AGC-EDFA, 7 dB nominal gain, +17 dBm output power, AC power, SC/APC optical connectors, finished good
575656-008-00	N1U-OA607N17-2DS-R	N1U-OA607N17-2DS-R, AGC-EDFA, 7 dB nominal gain, +17 dBm output power, DC power, SC/APC optical connectors, finished good

RELATED PRODUCTS

CHP Chassis	Optical Patch Cords
Power Supplies	Optical Passives
Optical Nodes	Installation Services

## 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.

**Copyright Statement:** ©ARRIS Enterprises, Inc. 2015 All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, Inc. (“ARRIS”). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are all registered trademarks of ARRIS Enterprises, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.