

Headend Optics Platform (CH3000)

AR3001H

Analog Dual Return Receiver (100 MHz)

FEATURES

- High dynamic optical input range:
 - 1310 nm: -18 to -3 dBm
 - 1550 nm: -20 to -4 dBm
- High -31 dBmV/Hz RF output
- RF output gain control with local or remote status monitoring
- High packaging density (up to 28 receivers per chassis)
- Front access -20 dB output test ports
- Hot plug-in/out
- Local and remote status monitor capability
- Occupies one full-depth slot



PRODUCT OVERVIEW

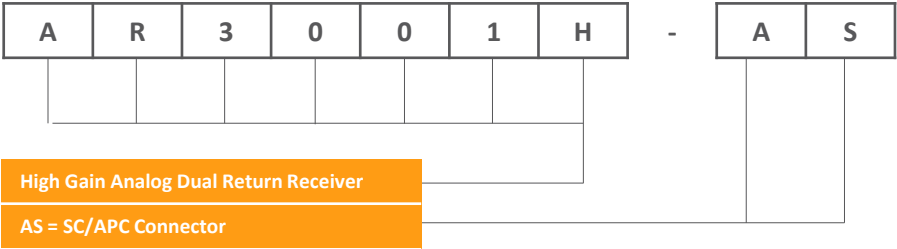
The AR3001H provides two high gain dual analog return path receivers (RPRs) in a single chassis module and supports the Next Generation Network Architecture (NGNA) guidelines for the evolution of HFC architectures. The high output power of the AR3001H allows passive RF splitting while increasing reliability.

Its compact design (single-width module) makes it the highest density packaging in the market. It allows the operator to install up to 28 return path receivers in one 3RU chassis. This compact design minimizes rack space requirements in the headend and hubs, and enhances deployment of traditional HFC, passive HFC and fiber to the home (FTTH) networks.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions (without connectors)	13.0" D x 4.3" H x 1.0" W (3RU) (33 cm x 11 cm x 2.5 cm)
Weight	1.6 lbs (0.72 kg)
Environmental	
Operating Temperature Range	-20° to +65°C (-4° to 149°F)
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)
Humidity	5% to 95% non-condensing
RF and Optical Interface	
2 RF outputs	F-type (female connectors at Back Plate BP-A2)
2 RF output test points	G-type (male connectors at front panel, -20 dB)
Optical connector	SC/APC (at Back Plate BP-A2)
Power Requirements	
Input voltage	12 V _{DC}
Current consumption	12 W
Electrical	
Pass band	5–100 MHz
Frequency response	± 0.25 dB
Nominal output level	-31 dBmV/Hz (45 dBmV total)
Output return loss	Minimum 18 dB
Level stability	± 0.5 dB
Gain control range	26 dB minimum
Gain control step	1.0 dB nominal
Optical	
Wavelength	1260–1620nm
Input return loss	45 dB
Optical power input range	<ul style="list-style-type: none"> 1310 nm: -18 to -3 dBm 1550 nm: -20 to -4 dBm
General	
Hot plug-in/out	
Manual gain alignment	

ORDERING INFORMATION



Required Module Back Plate



Back Plate is included with ordered module



RELATED PRODUCTS

CH3000 Chassis	Optical Passives
Digital Return	Optical Patch Cords
BP Back plates	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.

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