

FEATURES

- Supports DOCSIS® 3.1 HFC architectures
- 5–300 MHz RF bandwidth
- High optical input range: -15 to 0 dBm
- High RF output level to support splitting/combining
- Manual gain control (MGC) and Automatic level control (ALC) RF gain control options
- High packaging density (up to 56 receivers per chassis)
- Front access -20 dB output test port
- Hot plug-in/out
- Local and remote status monitor capability
- Occupies one full-depth slot

The AR3044L provides four standard gain analog return path receivers in a single chassis module in support of HFC architectures. The high output power of the AR3044L allows passive RF splitting and increases system design flexibility.

The compact single-width module design of the AR3044L allows the operator to install up to 56 return path receivers in one 3RU chassis. This approach minimizes rack space requirements in the headend and hubs and enhances deployment of HFC networks.



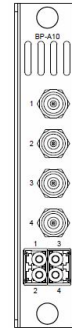
SPECIFICATIONS

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° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
RF and Optical Interface	
4 RF Outputs	F-type female (connectors at Back Plate BP-A10)
RF Output Test Point (Selectable for each output port)	G-type male (connector at front panel, -20 dB)
Optical Connectors	LC/APC (at Back Plate BP-A10)
Power Requirements	
Input Voltage	12 V _{DC}
Current Consumption	14.5 W
Electrical	
Passband	5 to 300 MHz
Frequency Response (Flatness)	± 0.5 dB
Recommended Output Level	44 dBmV with -15 dBm optical input; 30% OMI, MGC mode, RF attenuation = 24 dB
Nominal Output Level	54 dBmV with -15 dBm optical input; 30% OMI, MGC mode, RF attenuation = 14 dB
Output Return Loss	18 dB minimum
Level Stability	± 1 dB
Gain Control Range	26 dB minimum
Gain Control Step	1.0 dB nominal
Optical	
Wavelength	1260 to 1620 nm
Input Return Loss	45 dB
Optical Power Input Range (P _{IN})	-15 to 0 dBm
General	
	Hot plug-in/out
	Manual Gain Control (MGC) and Automatic Level Control (ALC) options

ORDERING INFORMATION

Model Name	Description
AR3044L-0-AL	Quad Standard Gain Analog Return Receiver (300 MHz). Requires BP-A10 Back Plate, which is included with the AR3044L-0-AL product.

**BP-A10
Back Plate**



RELATED PRODUCTS

CH3000 Chassis	Optical Passives
Installation Services	Optical Patch Cords

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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87-11045_RevD_Quad-StdGain-Analog-Rtn-Rcvr