

ARRIS AR3001H

DUAL ANALOG RETURN RECEIVER (100 MHz)

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.



- 5 – 100 MHz RF bandwidth
- High dynamic optical input range: 1310 nm: -18 to -3 dBm 1550 nm: -20 to -4 dBm
- High -31 dBmV/Hz RF out-put
- RF output gain control with local or remote status monitoring
- High packing density
- Front access -20dB output test ports
- Hot plug-in/out
- Local and remote status monitor capability
- Occupies one full-depth slot

SPECIFICATIONS

PHYSICAL		ELECTRICAL	
Dimensions	13.0" D x 4.3" H x 1.0" W (3RU) (33 cm x 11 cm x 2.5 cm)	Pass band	5–100 MHz
Weight	1.6 lbs (0.72 kg)	Frequency response	±0.25 dB
		Nominal output level	–31 dBmV/Hz (45 dBmV total)
RF AND OPTICAL INTERFACES		Output return loss	Minimum 18 dB
2 RF outputs: F-type (female connectors at Back Plate BP-A2)		Level stability	±0.5 dB
		Gain control range	26 dB minimum
2 RF output test points: G-type (male connectors at front panel, –20 dB)		Gain control step	1.0 dB nominal
		OPTICAL	
Optical connector: SC/APC (at Back Plate BP-A2)		Wavelength	1260nm – 1620nm
		Input return loss	45 dB
POWER REQUIREMENTS		Optical power input range	1310 nm: –18 to –3 dBm
Input voltage	12 VDC		1550 nm : –20 to –4 dBm
Power consumption	12 W		
ENVIRONMENTAL			
Operating temperature range		–20° to +65°C	
Storage temperature range		–40° to +85°C	
Humidity		5% to 95% non-condensing	

