

THE SMART CHOICE FOR WIRELESS BACKHAUL



GIGAHERTZ GHR5011AAE

POINT-TO-POINT BACKHAUL

- 54Mbps OFDM Wireless Ethernet Bridge
- 5GHz—Quad band UNII-1, UNII-2, UNII-3 and UNII-4 (ISM) with full 802.11h, DFS2 support.
- Outstanding sensitivity with enhanced filtering
- SNMP V1, V2c, V3 Support
- User-selectable data rates; 6, 9, 12, 18, 24, 36, 48 and 54
- Orthogonal Frequency Division Multiplexing (OFDM)
- Software updates via HTTP
- Perfect for ISP backhaul, enterprise and municipal connectivity, IP video backhaul, leased line replacement and “last mile” dedicated connection solutions (TDM, IP or both)

Designed to withstand the toughest environments, the Gigahertz radio is the ideal IP backhaul alternative.

It is ideal for operators faced with the challenge of minimizing both capital expenditure and operating expense. Operating in the 5GHz unlicensed bands, it offers outstanding performance, and excels in the radio-dense environments that many of us face today. This flexible, reliable IP backhaul radio delivers substantial cost savings over licensed microwave, leased line alternatives, and other unlicensed products.

Backhaul is one of the largest expenses in operating a network, driving all carriers to look for new strategies. The radio offers a compelling value proposition, with payback measured in months when compared to leased-line alternatives. It's ideal for carriers on a path to expansion and enhancement, with the scalability and flexibility to grow with the network.

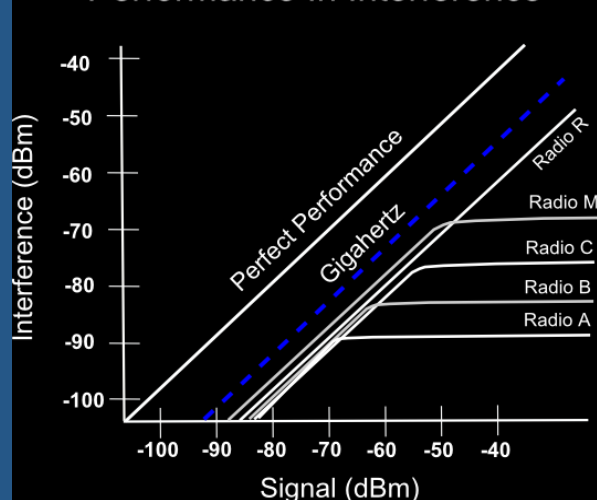
Unlike most competing unlicensed backhaul offerings, which were designed strictly for non-time-critical IP application, the radio offers rock-solid timing, capacity, and reliability. This makes it ideal for the delivery of telephony and other time-critical traffic. When used in conjunction with Memorylink's Flanger TDM over IP multiplexer, it provides a cost-effective solution for both data and voice networks.

GIGAHERTZ AT A GLANCE

Secure, reliable point-to-point links over unlicensed 5GHz microwave

- Small, light and rugged wireless IP radio
- Memorylink GPS sync capable
- Single unit can be configured as either master or slave
- Easy-to-configure via an integrated web interface
- Integrated audio alignment tool for easy installation
- Firmware optimized for synchronous point-to-point traffic
- Part of Instalink4™ package—a perfect companion wireless link for Memorylink's Flanger™ series of TDM to IP multiplexers.
- Rugged IP-67 rated waterproof aluminum housing
- Includes wall and pole mount hardware
- Companion—14 dBi antenna available

Performance In Interference



GIGAHERTZ SPECIFICATIONS

Specifications

Radio Parameters			
Frequencies of operation	5150-5250MHz (UNII-1), 5250-5350MHz (UNII-2), 5470-5725MHz(UNII-3),and 5725-5825MHz (UNII-4,ISM)		
Tx Channel Width Support	20MHz, 40MHz		
Range (antenna dependant)	over 50km		
Nominal Average Max Transmitter Power Output	28 dBm		
Security	WPA2 (PSK) uses the CCMP protocol with AES for 128 bit encryption.		
Receiver Sensitivity	-94dBm (6Mbps) to -90dBm (18Mbps) to -74dBm (54Mbps) typical		
Maximum Sustainable Throughput (measured with Iperf)	45Mps (turbo mode) 24Mbps (non-turbo mode)		
Data and Operational Parameters			
User Interfaces	Local and remote Web interface, Command Line Interface via SSH (Secure Shell)		
Physical Interfaces / Standards			
WAN (Power over CAT5)	Ethernet - RJ45, waterproof quick disconnect		
Antenna	Waterproof 50 Ohm female type-N antenna connector		
Ground	Chassis ground screw terminal connector		
Mounting Hardware	Wall mount bracket, Pole-top bracket and u-bolts for up to 2" pole		
	NEMA 67 rating (providing complete protection against ingress of dust[6] as well as protection against immersion in water[7]).		
Ethernet	IEEE 802.3, 802.3u (10/100), 802.11i, 802.11h		
Environmental	Physical		
Operating Temperature	-30°C to +70°C	Housing	Die Cast Aluminum
Storage Temperature	-40°C to +85°C	Dimensions	Height 5.9 in (151 mm) x Width 8.3in (211 mm)
Humidity	95% (non-condensing)		Depth 1.8in (45 mm)
Passive Cooling	No Fan	Weight	2.6 lbs (1.8 Kg) not incl. mounting hardware
Power Parameters		Model Numbers	
Power	12 - 56 volts	Memorylink Part Number: GHR5011AAE	
Max cable length	Ethernet standard : 328 feet (100 meters) of 24AWG STP Cat5 cable		
Power Input	7 watts (typical) 12 watts (maximum)		

Regulatory

FCC Part 15, Subpart J, Class A

Restriction of Hazardous Substances - RoHS Directive 2002/95/EC Compliant

All Specifications are typical and subject to change without notice.

- Legal regulations for specific frequencies vary - users are responsible for complying with their region's regulations.



Please check with your Memorylink distributor or check our website or call for part numbers.



Optional Companion 14dBi Antenna. Memorylink Part # ANT514

MEMORYlink
Wireless Broadband Innovations

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