



High-Performance
Fixed Wireless Access Solutions



RapidLink 10 Family

Point-to-Point & Point-to-Multipoint Broadband Wireless Access (5.8 GHz)



The RapidLink 10 family consists of base stations, subscriber units, and bridges for point-to-point and point-to-multipoint configurations. Operating in the license-exempt 5.8 GHz ISM band, RapidLink 10 ensures reliable data transport and content distribution without the burden of licensing fees or service area limitations. It is the most economical solution available providing excellent range, network capacity, spectral efficiency, and interference protection. By enabling businesses, telecom carriers, and service providers to connect remote locations without incurring the expense of running fiber underground, RapidLink 10 offers fast return on investment while providing optimal network performance. Two voice-capable versions of RapidLink 10 (RapidLink 10/1E1 and RapidLink 10/2E1) are also available from RapidWave.

Product Highlights

- Operates in license-exempt 5.8 GHz band
- 10Base-T Ethernet interface (IEEE 802.3 conformant)
- Capable of NLOS operation
- Embedded SNMP agent
- Dynamic bandwidth allocation
- Variety of antenna options available
- Minimal infrastructure costs
- Excellent cell coverage
- Designed for outdoor operation in harsh environments
- MTBF \geq 100,000 hours

Applications

- Wireless data/content distribution where DSL and Cable are too costly to install
- Point-to-point wireless data backhaul
- Affordable wireless alternative to traditional leased lines and cabling
- 802.11b replacement: RapidLink 10 offers almost twice the throughput and better interference protection
- Perfect for environments where wired networks are impractical or expensive

Designed for Demanding Outdoor Applications

RapidLink 10 employs a proprietary radio modulation technique and dynamic bandwidth allocation protocol to maximize performance and coverage, thereby yielding almost twice the throughput of IEEE 802.11b (Wi-Fi 2.4 GHz) technology used in other systems. In addition, its unique NLOS (Non-Line-of-Sight) architecture significantly increases deployment flexibility and lowers operating costs. Changing needs, including geographical expansion, subscriber growth, and higher traffic volume can be accommodated without having to reinvent the existing wireless network layout. This makes RapidLink 10 an excellent choice for organizations seeking to deploy interference-protected, flexible, and affordable fixed wireless broadband networks.

Easy to Install and Operate

Quickly deploy up to 140 Mbps aggregate capacity between locations, eliminating recurring monthly fees, licensing fees and delays. Standard Ethernet interfaces, an embedded SNMP agent, and a Windows-based management tool allow you to configure, monitor, and troubleshoot your RapidLink 10 network from any location.

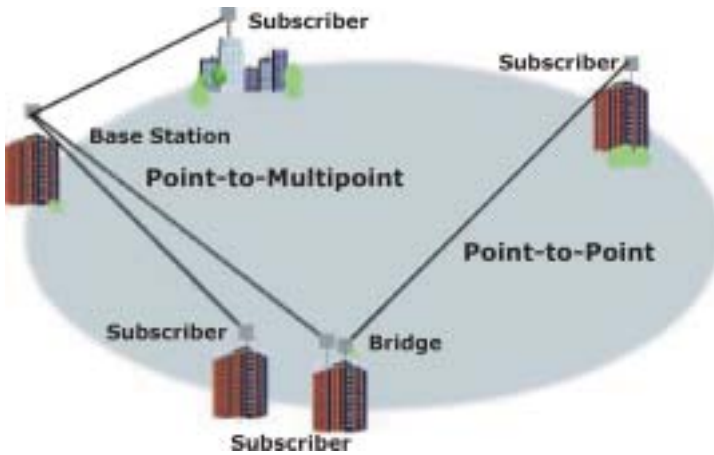
RapidLink 10 is Ideally Suited for:

- ISPs (Internet Service Providers) seeking to provide wireless Internet access in high-density and NLOS environments
- Organizations requiring reliable, high-speed wireless connectivity between multiple buildings or campuses
- CAPs (Competitive Access Providers) and CLECs (Competitive Local Exchange Carriers) providing business and local exchange bypass services
- Organizations or service providers seeking network redundancy for mission-critical wired connections



RapidLink 10 Family

Point-to-Point & Point-to-Multipoint Broadband Wireless Access



Specifications

Base Station Includes:

- Base station modem
- Radio transceiver
- Installation kit
- Base station mounting brackets
- User manual

Subscriber Unit Includes:

- Subscriber unit modem
- Radio transceiver
- Installation kit
- User manual

RapidWave, Inc. provides high-performance fixed wireless access systems to enable service providers, governments, and businesses to quickly, economically, and reliably build metropolitan area voice and data communication networks. Founded in July 2002, RapidWave is a privately held company headquartered in San Jose, California. RapidWave maintains sales and support offices in Europe and Latin America. To learn more about RapidWave, visit our web site at <http://www.rapidwaveinc.com>.

RapidWave, Inc.

6296A San Ignacio Ave
San Jose, CA 95119
Phone: (408) 363-5984
Fax: (408) 363-5972
Email: info@rapidwaveinc.com

© RapidWave, Inc. 2003. All rights reserved. RapidLink® is a registered trademark of RapidWave, Inc. Other brand or product names may be trademarks or registered trademarks of their respective owners. All specifications subject to change.

	Base Station	Subscriber Unit	Bridge Unit
Ordering Information	RL10-BA	RL10-SU	RL10-BR
Radio			
Frequency Range	5.725 to 5.825 GHz		
Frequency Channels	14 (non-overlapping)		
Transmit Power	20 dBm		
Receiver Sensitivity	-68 dBm		
Range	Up to 20 miles, depending on antenna option		
Data Rate	10 Mbps		
Maximum Throughput	8 Mbps		
Aggregate Bandwidth	140 Mbps		
Interfaces			
Network Interface	10Base-T Ethernet, with RJ-45 connector		
Antenna Connector	N-Type, female		
Antenna Options			
Omnidirectional	9 to 12 dBi	9 to 12 dBi	
Panel/Reflector		18 to 28 dBi	18 to 28 dBi
Sector (60 to 120°)	13 to 18 dBi		
Management			
Configuration	CLI/Telnet, Windows-based graphical user interface		
Management	SNMP		
Alarms	Transceiver not responding, excessive packet loss		
Dimensions			
Modem	20.7 x 8.3 x 8.9 in (53 x 21 x 23 cm)	8.2 x 5.5 x 2.2 in (21 x 14 x 6 cm)	8.2 x 5.5 x 2.2 in (21 x 14 x 6 cm)
Transceiver	6.5 x 6.5 x 1.6 in (17 x 17 x 4 cm)	6.5 x 6.5 x 1.6 in (17 x 17 x 4 cm)	6.5 x 6.5 x 1.6 in (17 x 17 x 4 cm)
Operational			
Power Supply	110/220 VAC		
Power Consumption	17 Watt		
Environmental			
Modem	-10 to 50°C		
Transceiver	-30 to 60°C		

