



E-BAND PRODUCT SPECIFICATIONS

E-BAND WIRELESS LINKS FOR HIGH-BANDWIDTH APPLICATIONS

Gigabit Ethernet links extend network operator fiber to provide high-capacity access and backhaul, as well as extending enterprise LANs between buildings and sites.

PRODUCT FEATURES

- Full rate, full duplex Gigabit Ethernet
- Highly secure, narrow antenna beamwidth
- Interference-free operation enabling high-density deployments
- Simple, fast path licensing
- AdaptRate™ switching overcomes peak rain downpours
- Low latency for fiber-equivalent performance
- Forward Error Correction provides maximum link range

E-BAND PRODUCT RANGES



WIRELESS “VIRTUAL FIBER” SOLUTIONS FOR SERVICE PROVIDER, GOVERNMENT/ MILITARY, AND ENTERPRISE APPLICATIONS

LAN EXTENSION
Extends LAN backbones between buildings

FIRST/LAST MILE
Supports high-speed access services

METRO AREA NETWORK (MAN)
Complements/extends metro fiber

SERVER CONSOLIDATION
Enables centralization of IT facilities

SPATIAL DIVERSITY
Creates redundant paths for mission-critical applications

FAST AND FLEXIBLE
Provides temporary and disaster-recovery connectivity

FIBER ALTERNATIVE
Offers fiber-equivalent performance, security and reliability

CONFIGURATIONS

- Point-to-point
- Hot standby
- Multi-hop/repeater
- Hub-and-spoke
- Ring
- Mesh

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	GE80 Gigabit Ethernet Link	AR80 AdaptRate™ Gigabit Ethernet Link
Data Rate	1000 Mbps full duplex	1000/100 Mbps full duplex
Latency	< 50 microseconds	< 50 microseconds @ 1000 Mbps
		< 150 microseconds @ 100 Mbps
RF Interface	73.5/82.5GHz (FDD), digitally modulated (BFSK) with Forward Error Correction (RS 204,188)	
	1.4GHz bandwidth	1.4GHz bandwidth @ 1000 Mbps
		140MHz bandwidth @ 100 Mbps
AdaptRate Switching Time	Not applicable	< 50 milliseconds
Ethernet Interfaces	1000Base-SX with LC connectors – up to 270 meters 62.5/125µm MMF, or 500 meters 50/125µm MMF	
	10/100Base-TX with RJ-45 connector – up to 100 meters Cat 5 cable (surge protectors required)	
	Up to 1518-byte standard Ethernet frames (1522 bytes with 802.1q VLAN tags)	
	Configurable MAC address learning and RF link state propagation	
Management	Web-based (HTML) embedded management agent: setup, security, status, statistics, software update	
Mount	Fine-adjust pole mount: 6-11 cm (2.5-4.5 in.) OD	
Size	Radio + antenna: 33w * 33h * 22d (cm); with mount: 50w * 36h * 25d (cm)	
Weight	Radio + antenna + mount: 10 kg (22 lbs)	
Environmental	Operating temperature: -30 to +50 °C (-22 to 122 °F)	
	Operating altitude: 4,500 meters (max.)	
Wind Loading	60 lbs force @ 100MPH	
Regulatory	Safety: UL Listed; meets FCC 1.1310 general population RF MPE limits	
	RF Certification: US FCC Part 101	
Install Kit	Voltmeter test cable, power connectors	

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