Model BR2040-EE

FEATURES

- ***High Speed Wireless Bridge***
- ***Connects Ethernet Networks up to 10 Miles Apart.***
- ***Point-to-Point and Point-to-Multipoint Functionality.***
- ***Data Rates up to 4 Mbps.***
- ***No FCC License Required.***

CE

DESCRIPTION

Aironet's Long Range Wireless Bridge provides unsurpassed capability in building-to-building communications. Designed for linking Ethernet networks in different locations together, these bridges can span line of sight distances up to 6 miles at data rates of 4 Mbps. Higher data rates make data-intensive applications like LAN videoconferencing or high-speed shared Internet access practical. Longer distances can be bridged at data rates of 2 Mbps or 1 Mbps.

Using patented spread spectrum radio technology, originally developed by the US military for fast, secure, and reliable communications, Aironet bridges can operate where traditional wired LAN interconnections are impossible. And unlike wired alternatives, they are portable and easily re-deployed as needs change.

Aironet wireless bridges are a no-hassle alternative to laying cable or expensive high-speed telephone lines. With low initial costs and no operational costs, they will quickly pay for themselves in savings.

SPECIFICATIONS

Lower cost alternative to:

Laying cable
Leased telephone lines
Microwave

Ideal for:

Campus environments
Multi-site facilities
Remote areas
Sharing Internet access

Data Rate (maximum):	**4 Mbps**	**2 Mbps**	**1 Mbps**
Directional range w/optional antenna:*			
Omni	0.3 miles	0.5 miles	0.8 miles
Yagi	2 miles	3 miles	6 miles
Parabolic Grid	6 miles	8 miles	10 miles
Max number of non-interfering bridge pairs:	2	2	2
Maximum aggregate data rate:**	8 Mbps	4 Mbps	2 Mbps

* Directional range is a function of antenna gain, antenna placement, local conditions, antenna cable length, and other factors. Range shown is practical maximum for a line of sight application when used with indicated antenna on each bridge. Range shown assumes 20 ft. of approved antenna cable and provides for a 10 dBm link margin. Range will typically be less in urban areas. Other antennas are available.

** Requires multiple bridge pairs.

ANTENNA SPECIFICATIONS

Data Rate (maximum):	**4 Mbps**	**2 Mbps**	**1 Mbps**
	Omni	Yagi	Parabolic Grid
Antenna gain:	5.2 dBi	13.5 dBi	23 dBi
Dimensions:	13", 1"dia.	18", 3"dia.	2'x3'
Weight:	6 oz.	1.5 lbs.	5 lbs.
Mounting:	mast	1 - 1 3/4" OD pole	1 - 2" OD pole

SPECIFICATIONS CONT.

GENERAL

Radio Type:
Direct Sequence Spread Spectrum

Operating Frequency Range:
2.4-2.4835 GHz

Antenna Connection:
Reverse Polarity TNC (RP-TNC)

Output Power:
100 mW maximum radio output, 4 W EIRP maximum system output

Standard Antenna:
2.15 dBi Dipole

Warranty:
One year parts and labor returned to factory

Approvals:
FCC Part 15, Subpart B, Class A; FCC Part 15.247; UL; CSA. Call for information on use outside the U.S.A.

NETWORK SUPPORT

Wired LAN Protocol:
IEEE 802.3 CSMA/CD

Wired LAN Connections:
10Base2 (Thin/BNC),
10Base5 (Thick/AUI),
10BaseT (Twisted Pair/RJ-45)

Wired LAN Capacity:
10 Mbps

Wired LAN Filtering:
Intelligent packet filtering by network address, protocol, or packet content

Spanning Tree Protocol:
IEEE 802.1d

Wireless LAN Protocol:
Patented ARLAN® MicroCellular Architecture based upon CSMA/CA

Wireless Bridges Per LAN:
Unlimited

Users Per Bridge (max):
2043

CONFIGURATION AND MANAGEMENT

Local Configuration Via:
System Console Port (Serial RS-232C DB-9 Female)

Remote Configuration Via:
Any wired or wireless LAN station via Telnet, FTP, or SNMP

Automatic Configuration Via:
BOOTP

SNMP Compliance:
MIB I, MIB II, and ARLAN Enterprise MIB

Security:
System ID required, over 16 million values available

Configuration Security:
Password protected

Flash ROM:
256 KB for configuration tables and firmware

LED Indicators:
System Status, Ethernet Activity, Wireless LAN Activity

PHYSICAL CHARACTERISTICS

Dimensions (W x D x H):
20 cm x 15 cm x 5 cm

Weight:
0.7 Kg (1 lb. 8 oz.)

Temperature Range:
20O C to +50O C (-4O F to +122 F)

Power Supply:
90-260 VAC, 50/60 Hz, 18 VDC @ 1A

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4 Mbps wireless Ethernet bridge

ORDERING GUIDE

Model OMNI
5.2 dBi antenna

Model YAGI
13.5 dBi antenna

Model PARABOLIC
23 dBi antenna

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