

BROCADE MOBILITY 300 ACCESS POINT



CAMPUS NETWORK

Plug-and-Play 802.11a/b/g Access Points for Secure Wireless Enterprises

HIGHLIGHTS

- Provides greater functionality at a much lower cost than typical access points
- Delivers seamless mobility in conjunction with enterprise WLAN switches
- Can execute and enforce switch-based IDS/IPS security policies
- Functions as a 24×7 dedicated sensor with AirDefense IPS for Brocade Mobility
- Enables true wireless VLANs for improved device and network performance
- Supports load balancing, pre-emptive roaming, and rate scaling for more efficient operations
- Provides Power over Ethernet (PoE) support for simplified installation

Access points are a key component of the industry-leading Brocade® wireless switch system, the Wireless LAN (WLAN) architecture that does more, yet costs less. Working in conjunction with Brocade wireless controllers, the Brocade Mobility 300 Access Point provides robust and feature-rich IEEE 802.11a/b/g connectivity. It can also be used as:

- A sensor in conjunction with the AirDefense® Intrusion Prevention System (IPS) for Brocade Mobility
- Either a Layer 2 or Layer 3 access point, supporting Layer 3 mobility

With this level of flexibility, the Brocade Mobility 300 substantially reduces the cost of deploying, implementing, and managing a wireless LAN while significantly increasing the functionality and security of the wireless LAN infrastructure.

With Virtual AP, each access point can support four separate wireless broadcast domains—functionality that would otherwise require the installation of four first-generation access points. These true wireless VLANs provide secure isolation of specific mobile users, helping to ensure that broadcast traffic reaches only those recipients for whom it is intended. This



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approach reduces overall network traffic, improves network and device performance, and increases device battery life—at a fraction of the cost required to deliver the same functionality in a first-generation access point network.

Each Brocade Mobility 300 supports four Basic Service Set Identifiers (BSSIDs) and 16 Extended Service Set Identifiers (ESSIDs) per radio, enabling granular segmentation of the wireless LAN into multiple broadcast domains to meet specific enterprise requirements. This design is much more effective than that of typical access points, which support only one BSSID and utilize ESSIDs (instead of BSSIDs) to create wireless VLANs.

DUAL-RADIO 802.11a AND 802.11g DESIGN

Simultaneous service to 802.11a, 802.11b, and 802.11g mobile devices provides high-bandwidth wireless connectivity at speeds of up to 54 Mbps in both the 2.4 GHz and 5.2 GHz ISM bands.

THIN ACCESS POINT DESIGN

The Brocade Mobility 300 requires no configuration or manual firmware maintenance. The Brocade wireless controller discovers access points on the network and automatically downloads all configuration parameters and firmware, greatly reducing installation, maintenance, and troubleshooting costs for Layer 2 and Layer 3 deployments.

SERVICES FOR AN END-TO-END SOLUTION

Brocade Global Services offers comprehensive customer support for Brocade enterprise wireless LAN products, including hardware and 24×7 software support, along with software updates and new releases.

MAXIMIZING INVESTMENTS

To help optimize technology investments, Brocade and its partners offer complete solutions that include education, support, and services. For more information, contact a Brocade sales partner or visit www.brocade.com.

BROCADE MOBILITY 300 SPECIFICATIONS

Physical characteristics (internal antenna)		Receiver sensitivity		
Dimensions	9.5 in. L × 7.0 in. W × 2.0 in. H (24.1 cm × 17.8 cm × 5.1 cm)	802.11b (-dBm)	802.11g (-dBm)	802.11a (-dBm)
Weight	1.0 lbs. (0.45 kg)	1 -96	6 -92	6 -91
Available mounting configurations	Ceiling mount (to suspended ceiling T-bars, below tile); wall mount	2 -93	9 -89	9 -88
Plenum-rated	No	5.5 -92	12 -87	12 -86
LED indicators	Two LED indicators with multiple modes indicating 802.11a/802.11g activity, power, sensor, adoption, and errors	11 -87	18 -86	18 -86
			24 -83	24 -83
			36 -78	36 -77
			48 -74	48 -74
			54 -72	54 -72
Physical characteristics (external antenna)		Environmental		
Dimensions	9.3 in. L × 5.8 in. W × 1.0 in. H (23.5 cm × 14.6 cm × 2.54 cm)	Temperature	Operating: 32° F to 104° F (0° C to 40° C) for internal antenna	
Weight	1.6 lbs. (0.7 kg)		Operating: -4° F to 122° F (-20° C to 50° C) for external antenna	
Available mounting configurations	Ceiling mount (above tile); wall mount		Non-operating: -40° F to 158° F (-40° C to 70° C)	
Plenum-rated	Yes, certified to UL 2043	Operating humidity	5% to 95% (without condensation)	
LED indicators	Two LED indicators with multiple modes indicating 802.11a/802.11g activity, power, sensor, adoption, and errors	Altitude	Operating: 8000 ft. (2438 m)	
			Non-operating: 15,000 ft. (4572 m)	
Wireless data communications and networking		Electrostatic discharge	+/- 15 kV (air), +/- 8 kV (contact)	
Data rates supported	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps	Power specifications		
Network standards	802.11a, 802.11b, 802.11g	Operating voltage	48VDC at 7W (typical), 36VDC to 57VDC (range)	
Wireless medium	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)	Operating current	145mA at 48VDC (typical)	
VLANs/WLANs supported	Brocade Mobility RFS6000: 32 VLANs/32 WLANs Brocade Mobility RFS7000: 256 VLANs/256 WLANs	Integrated Power over Ethernet (PoE)	Standards-based IEEE 802.3af	
Uplink	Auto-sensing 10/100 Base-T Ethernet	Antenna specifications		
Radio characteristics		Type	Integrated 2.4 GHz and 5.2 GHz dual antenna; elements with diversity (internal antenna)	
Frequency	802.11b/g: 2.412 GHz to 2.484 GHz; 802.11a: 4.9 GHz to 5.875 GHz	Band	2.4 GHz to 2.5 GHz; 4.9 GHz to 5.850 GHz (actual operating frequencies depend on regulatory rules and certification agency)	
FCC (US and Canada)	2.412 to 2.462 GHz; 5.150 to 5.250 (UNII -1); 5.725 to 5.850 (ISM)	Voltage Standing Wave Ratio (VSWR)	2.4 GHz: less than 2:1; 5.2 GHz: less than 1.5:1 (internal antenna)	
EU	2.412 GHz to 2.472 GHz; 5.250 to 5.350 GHz (country-specific)	Gain	2.4 GHz: 2 dBi; 5.2 GHz: 3.8 dBi (internal antenna)	
Japan	2.400 to 2.484 GHz; 5.150 to 5.250 GHz; 5.250 to 5.350 GHz		Antenna-specific (external antenna)	
China	2.412 GHz to 2.472 GHz (internal antenna) 5.725 GHz to 5.850 GHz (external antenna)	Regulatory		
Operating channels	802.11b/g: ETSI: 13; North America: 11; TELEC (Japan): 13 802.11a: ETSI: country-specific; North America: 12; UNII I, II, III; (approval for 5.4 to 5.7 GHz pending); TELEC (Japan): 8	Product safety	UL 60950, cUL, EU EN 60950, TUV, and UL 2043 (external antenna)	
Available transmit power settings for 802.11a/b/g	4 to 20 dBm	EMC compliance	FCC (USA), Industry Canada, CE (Europe), and TELEC (Japan)	

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