

Data Sheet



AP200

Key Product Benefits:

- Zero configuration setup using plug and play architecture
- Tri-mode 802.11b/g and 802.11a
- Best 802.11g performance in mixed 802.11b/g environments
- Exceptional wireless VOIP performance using Air Traffic Control technology
- Highest user density environment support
- Multi-layered security including standard WPA; 802.11i security such as automatic rogue access point prevention and traffic inspection

Meru AP200 Access Point

High-Performance Dual Radio Access Point for Converged Voice and Data Wireless LANs

Wi-Fi Certified Tri-mode Access Point Delivers Exceptional Performance

A key component of the Meru Wireless LAN System, the Meru Access Point delivers unsurpassed Wi-Fi performance in conjunction with Meru Wireless LAN Controllers. Representing a shift to the fourth generation WLAN architecture using coordinated intelligent APs at the edge, the Meru WLAN System delivers:

- Toll quality voice over Wi-Fi
- Ten-fold increase in client density
- · Automatic AP discovery, configuration
- Intelligent load balancing
- · E(z)RF installation and self-healing

The Only Solution to Deliver a 10-Fold Increase in Client Density

Embedded Wi-Fi in laptops are almost ubiquitous. And with emerging dual mode Wi-Fi/cellular phones, the number of clients in your enterprise is going to increase exponentially in only a few short years. Deploy a system that is designed to deal with high densities of voice and data clients, without sacrificing performance.

- Supports voice clients simultaneously with heavy data traffic with no quality degradation
- Quality of Service ensures thorough deterministic scheduling of client transmissions and zero hand off between wireless cells
- Air Traffic Control™ delivers ten-fold increase in client density
- Virtual cell technology eliminates complex channel planning and allows zero handoff

A Multi-Layered Security Approach

Security is the key consideration for network administrators planning a wireless LAN. Meru goes beyond the basic over-the-air protections with a multilayered security policy.

- Wi-Fi Alliance Certified[™] for WPA and 802.1x
- No security information within access point
- Only operates with Meru Controller
- Automatic rogue access point detection and prevention without degradation of client traffic
- Multiple ESSIDs with individual security policies to ensure separation of different user groups

Tri-mode Access Point Provides Investment Protection

Enterprise applications and user density continue to increase. Tri-mode 802.11a/b/g clients are now commonplace in laptops. Ensure your network supports the full breadth of wireless LAN clients with a Meru access point.

- Dual 802.11b/g and 802.11a radios
- Simultaneously support 802.11b, 802.11g and 802.11a clients
- Dramatically improve 802.11g performance in mixed 802.11b/g environments using Air Traffic Control™ technology

Dual Functionality Delivers Exceptional ROI

An important component of any enterprise wireless LAN solution is the ability to monitor the airwaves for performance changes and malicious RF activity. Meru Access Points uniquely provide both capabilities without the performance degradation to client traffic that is common with other solutions.

- Continuously monitor all channels in 2.4 and 5 GHz spectrum
- Serve client traffic and perform RF monitoring simultaneously
- Eliminate the need for expensive overlay solutions

Ready for Enterprise Deployment

Broad scale deployment of a wireless LAN requires the access point to work with the existing environment. Meru Access Points and the wireless LAN System architecture are designed with the enterprise in mind.

- Layer 2 or 3 connectivity for flexible deployment options
- Plenum rated for installation above ceiling
- Locking mechanism secures access point when mounted in public areas

About Meru Networks

Meru Networks is the global leader in wireless infrastructure solutions that enable the All-Wireless Enterprise. Its industry leading innovations deliver pervasive, wireless service fidelity for business-critical applications to major Fortune 500 enterprises, universities, healthcare organizations and state, local and federal government agencies. Meru's award winning Air Traffic Control technology brings the benefits of the cellular world to the wireless LAN environment. The Meru Wireless LAN System is the only solution on the market that delivers predictable bandwidth and over-the-air Quality of Service with the reliability, scalability, and security necessary for converged voice and data services over a single WLAN infrastructure.



AP200 Technical Specifications

For more information about the Meru AP200, visit: www.merunetworks.com

Or email your questions to: info@merunetworks.com

CID and U 222 cuprant	Support for SIR and H 222v1 applications and as deep	Frequency Bar
SIP and H.323 support QoS Rules	Support for SIP and H.323v1 applications and codecs Configurable Dynamic QoS rules	Frequency Bar
	Over-the-air upstream and downstream resource reservation	
	Automatic, stateful flow detectors for SIP, H.323, Cisco SCCP, SpectraLink SVP and Vocera	Operating Cha
SECURITY		Transmit Powe
Security Policy	Multiple ESSID/BSSID each with its own 8-Layer Security Policy	802.11g Data
Encryption support	40-bit/ 64-bit/ 128-bit, TKIP, AES	802.11b Rece
Rogue Detection and Suppression	Any radio can scan both 802.11a and 802.11b/g for rogues	Sensitivity 802.11g Rece
MANAGEMENT		Sensitivity PHYSICAL
Zero-Configuration	Automatically selects power and channel settings	Dimensions (H
System Management	Centralized and remote management of APs by System Director's web-based GUI, SNMP, and Cisco-like CLI	Power
MOBILITY		Environmenta
Zero-Loss Handoffs	Supports zero-loss handoff over Layer 2/3 infrastructure	Indoor Operat Humidity:
Multi-vendor	Interoperates with non-Meru AP's for handoffs	Indoor Storage
WIRELESS SPECIFIC	CATIONS	Transit Tempe
Wireless Interfaces	IEEE 802.11 a/b/g	Indoor Storage Transit Humid
wireless iriterraces	IEEE 802.11i support (AES, WEP and WPA2)	Interfaces
	IEEE draft 802.11e support (QOS)	
	IEEE 802.3af Power over Ethernet	
Power Management	Optimal power control in 1 dBm increments	
Antenna	RP F SMA jacks on housing for external antennas for specific coverage requirements, or standard antenna (included)	Indicators
	Antenna receive diversity via hardware switching for 802.11b	Compliance
	External Antenna options for custom installations	Warranty
	Standard Antenna Gain~ 2 dBi for 2.4 GHz, and 3 dBi for 5 GHz	vvarianty
Wireless Medium Access	Wi-Fi Compliant 802.11 MAC standard	
Frame Size Client Support	Peak frame size of > 2250 bytes	
	Fragmentation and Reassembly of 802.11/Ethernet frames supported	
	Support for clients that perform active scanning and passive scanning	
	Support for clients that pre-authenticate	
	Support for clients that change to and from power save mode rapidly	
	Power Save Mode for clients in both QoS mode and non- QoS mode	
	Sleep Mode drivers for Wi-Fi voice handsets	
802.11a		
Frequency Band	5.180 – 5.240 GHz; 8 Channels (34, 36, 38, 40, 42, 44, 46, 48)	
	5.280 – 5.320 GHz;	
	4 channels (52, 56, 60, and 64) NOTE: FCC certification methods still pending, these channels may not be legally available in US at FCS	
	5.745 – 5.825 GHz; 5 channels (149, 153, 157, 161, and 165)	
Operating Channels	Configurable based on country regulations	
Data Rates	54, 48, 36, 24, 18, 12, 9 and 6 Mbps with automatic rate	
	adaptation	

~ +16 dBm (40 mW) nominal; transmit power, indoor/out-door usage, antenna type and gain are country regulations -70 dBm at 54 Mbps, -86 dBm at 6 Mbps

802.11b/g		
Frequency Band	Hardware supports 2.40-2.50 GHz: 2.4 GHz - 2.4835 GHz (US, Europe) 2.4 GHz - 2.497 GHz (Japan only)	
Operating Channels	1-11 US/Canada, 1-13 Europe, and 1-14 Japan)	
	3 non-overlapping channels	
Transmit Power	~+20 dBm (100 mW) nominal, country regulations dependent 802.11 b Data Rates 11, 5.5, 2 and 1 Mbps with automatic rate adaptation	
802.11g Data Rates	54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps	
802.11b Receive Sensitivity	-84 dBm at 11 Mbps, -90 dBm at 1 Mbps with BER 10E-5	
802.11g Receive Sensitivity	-70 dBm at 54 Mbps, -85 dBm at 6 Mbps	
PHYSICAL SPECIFI	CATIONS	
Dimensions (H x W x D)	1.5" (H) x 6.25" (W) x 8.25" (D)	
Power	Power over Ethernet (PoE), IEEE 802.3af compliant Power draw 12 W	
Environmental	Indoor Operating Temperature: 32°F to 122°F (0°C to 50°C	
Indoor Operating Humidity:	0% to 95% humidity (non-condensing)	
Indoor Storage and Transit Temperature:	-40°F to 185°F (-40°C to 85°C)	
Indoor Storage and Transit Humidity	0% to 95% relative humidity (non-condensing)	
Interfaces	1 Auto-sensing 10/100 Base-TX Ethernet (RJ-45)	
	Dual Radios support any combination of 802.11a, 802.11b, 802.11g	
	Kensington MicroSaver Lock compatible	
Indicators	4 LEDs for monitoring power, Ethernet activity, 802.11 activity, and 802.11 receive	
Compliance	Radio: FCC Part 15.247; Safety: UL 1950; Plenum-rating (UL 2545); EMI: FCC Part 15.107, 15.109; Applicable per- country certifications; Wi-Fi Certified	
Warranty	Hardware: 1 year	
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Software: 90 days Red Carpet Service options



Meru Networks Corporate Headquarters 894 Ross Drive Sunnyvale, CA 94089 USA P 408.215.5300 F 408.215.5301

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Transmit Power

Receive Sensitivity

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