

AP400



MERU AP 400 ACCESS POINT

The Meru Networks' AP400 access points (APs) are the first 802.11n wireless product to be specifically designed to create a software programmable edge architecture for the Mobile Enterprise and accelerate the elimination of the wiring closet.



TRIPLE RADIO 802.11N ACCESS POINT

The uncompromising design of the AP400 gives you a network edge purpose built for mobility – scalability and capacity with software simplicity.

PRODUCT OVERVIEW

With a three radio design, and Meru's patented Virtualized Wireless LAN technology, the AP433 access points are designed to allow enterprises to use virtualization to re-architect the edge of enterprise networks and tackle the industry's toughest wireless workloads. Engineered for a data rate that exceeds 1.3 Gbps and 380 simultaneous mobile clients, the AP433 has the ability to more than double the capacity of any enterprise solution for Wi-Fi smartphones, iPads, tablets and other wireless devices available today. With software configurable operating modes designed to reduce and ultimately eliminate wired edge switches, the AP433 defines the new campus Mobile Edge – an edge network architecture that is purpose built for mobility, drastically reduces unnecessary investment in Ethernet switching, and prepares enterprises for the mobile workforce and ubiquitous cloud applications.

Software configurable edge services include:

- **WLAN 500™ Mode:** Maximize client density and capacity by using all radios for multiple channel layers
- **Application Segregation Mode:** Dedicated spectrum for mission-critical applications
- **Air Traffic Service Mode:** Employ Predictive Analytics, maximize Security, and clear the air with Proactive Spectrum Analysis from the same device
- **Wireless Distribution Mode:** Replace wired closet switches with high-speed wireless for flexibility, security and savings.



The AP400 Access Point radios are optimized for iPads, iPhones, and other smart devices.

Product Benefits

- ❑ Orthogonal Array Beam Forming (OABF) antenna system maximizes performance and gain; minimizes interference
- ❑ Support for EzRF Network Manager, Spectrum Manager, WIPS, PCI Compliance Manager and Location Services
- ❑ Plug and Play deployment using centralized Meru Controller
- ❑ Supports all 802.11 a/b/g/n devices
- ❑ Tool free, tamper proof installation
- ❑ All radios - 3x3:3 802.11n support in both 2.4GHz and 5GHz frequency bands



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AP400

TECHNICAL SPECIFICATIONS

APPLICATION SUPPORT AND OVER-THE-AIR QoS

SIP and H.323 support

Dynamic out of the box support for SIP and H.323v1 applications and codecs

QoS

Configurable dynamic QoS rules Over-the-air resource reservation Automatic, stateful flow detectors for SIP, H.323, and Vocera Configurable QoS rules for SIP, H323, Ascom, Siemens, Shoretel, Vocera and Cisco SCCP.

User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers) Call Admissions Control and Call Load Balancing WMM Support

SECURITY

Authentication

Combination of captive portal, 802.1x and open authentication Advanced security using WPA2

802.1X with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP) MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST and EAP-MD5, with mutual authentication and dynamic, per user, per session unicast and broadcast keys Secure HTTPS w/customizable Captive Portal utilizing RADIUS

Encryption support

Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES

Security Policy

Radius Assisted, Per User and Per ESSID Access control via MAC Filtering Multiple ESSID/BSSID each with flexibility of separate and shared Security Policy

Rogue Detection and Suppression

All radios capable of scanning 802.11n, 802.11a and 802.11b/g for rogue devices

MOBILITY

Zero-loss Handoffs Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients

CENTRALIZED MANAGEMENT

Zero-Configuration

Automatically selects power and channel settings Automatically discovers controllers and download configuration settings Zero touch, plug and play deployments

System Management

Centralized and remote management and software upgrades via System Director web-based GUI, SNMP, Command-Line Interface (CLI) via serial port, SSH, Telnet, centrally managed via EzRF Management Suite Centralized Security Policy for WLAN, Multiple ESSIDs and VLANs with their own administrative/security policies

Intelligent RF Management

Coordination of access points with load-balancing for predictable performance Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs Co-channel interference management

WIRELESS SPECIFICATIONS

Wireless Standards

IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

Power Management

Optimal power control in 1 dBm increments Ability to disable unused radios via software to lower power consumption

Antenna

Dual band Omni directional dipole: 2 dBi at 2.4 GHz and 3 dBi at 5 GHz band (included) External dual band Omni directional dipole: 6 dBi at 2.4 GHz and 6 dBi at 5 GHz band Ceiling mount MIMO Omni directional: 2.5 dBi at 2.4 GHz and 4 dBi at 5 GHz band Ceiling mount Directional Dual band MIMO Panel antenna: 3 dBi at 2.4 GHz and 4 dBi at 5 GHz band

WIRELESS SPECIFICATIONS (cont.)

Client Support

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

PHYSICAL SPECIFICATIONS

Dimensions

7.85" length x 6.5" width x 1.4" height (19.9 cm length x 16.5 cm width x 3.6 cm depth)

Weight

2lbs 4 oz. (1.62 kgs)

Power

802.3at PoE for 3 radio operation and 802.af for 2 radio operation Draws 11.5W to 18W depending on configuration

Environmental

Operating Temperature: 0° to 50° C (32° F to 122° F) Operating Humidity: 90% (non-condensing) Storage Temperature: -10° to +70° C ambient Storage Humidity: 95% (non-condensing)

Interfaces

1 Auto sensing 10/100/1000 Base-TX Ethernet (RJ-45) Dual band radios support any combination of 802.11a/b/g/n 3 – 9 external antenna interfaces (Reverse polarity RPSMA) Kensington MicroSaver Lock compatible 1 RJ45 Console port (reserved for future use) 2 LEDs for monitoring Power, Ethernet activity, 802.11 TX and RX activity

Standard Warranty

Limited lifetime warranty

AP400 Part Numbers

AP400

Triple radio 802.11a/b/g/n AP

Certifications

Radio

FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; IDA Registration (Singapore); KCC approval (Korea); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893(EU)

Safety

UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1

Emissions

EN 55022 Class B; EN 55024; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B



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Meru Networks | develops and markets 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 local, state and federal government agencies. Meru's award-winning Air Traffic Control technology brings the benefits of the cellular world to the wireless LAN environment, and its WLAN 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 to deliver converged voice and data services over a single WLAN infrastructure.

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