AP 150

MERU NETWORKS®

MERU **AP150 ACCESS POINT**

The AP150 delivers wireless with the tight security and precise control required for branch offices with the reliability, predictability, and performance that has made Meru the choice of thousands of enterprises worldwide.

DUAL RADIO ACCESS POINT

Answers today's pressing wireless needs,
With technology to that exceeds users' expectations

PRODUCT OVERVIEW

The Meru AP150 Access Point delivers secure, high performance wireless connectivity for small to medium enterprise deployments such as remote offices, branch offices, retail locations, and schools.

Comprising of an 802.11a and an 802.11b/g radio, this access point is the easiest-to-deploy access point in its class. Enjoy all the benefits of Meru's Virtualized Wireless LAN solution in this traditional and appealing package.

• Air Traffic Control™ provides high performance, high quality 802.11a/b/g for voice and data clients, allowing the WLAN to effectively meet bandwidth demands and support the demands of all mission critical applications.

• No complex channel planning when combined with a Meru Controller – enjoy plug-and-play installation for simple deployment.

The AP150 Access Point provides the incomparable user experience of Meru's Virtual Cell architecture in an affordable package.

Product Benefits

:: Affordable wireless coverage for when 802.11n support is not required

:: Plug and Play deployment using centralized Meru Controller

:: Eliminate complex RF channel planning with virtualization

:: Powered by a standard 802.3af power source

:: Supports all 802.11a/b/g devices

:: Improved scalability through channel layering deployment

TECHNICAL SPECIFICATIONS

SECURITY

MAC Filtering
Local MAC database; RADIUS MAC authentication

Layer 2 Security
802.11 Security: WEP-64, WEP-128, 802.1x with PEAP, WPA, WPA2

Encryption support
WEP keys of 40 bits, 64 bits, and 128 bits (in hardware); TKIP (in hardware); AES (in hardware)

RADIUS Interoperability
Microsoft IAS, Steel-Belted RADIUS, FreeRADIUS, Cisco ACS

Layer 3 Security
VPN Passthrough; Captive Portal for guest access

Intrusion Prevention System
Can be operated as an RF scanner; Works in conjunction with Meru IPS features

MANAGEMENT

Administrative Access
SSH, Telnet, GUI - through controller

Configuration
Automatically downloaded from controller; Can be modified through Controller GUI/CLI or E(z)RF Management Station

Troubleshooting and Local Access
Advanced troubleshooting through controller; Historical reports and alerts through E(z)RF

Remote/Central Management
E(z)RF Management Station for: Monitoring, Alerts, Reports, RF Visualization, RF Locationing

SNMP Support
SNMP v1/v2c Agent & Monitoring through controller MIBs

Remote Logging
Syslog v1 and v2 - failure alerts and change notifications through controller and E(z)RF

Software Upgrade
Automatic software upgrades, originated by controller

WIRELESS SPECIFICATIONS

Wireless Interfaces
Two radios - IEEE 802.11a and IEEE 802.11b/g

Power Management
Optimal power control in 1 dBm increments

Antenna
RP F SMA jacks on housing for external antennas for specific coverage requirements, or 2.2 dBi omni-directional dipoles included.

Frame Size
Peak frame size of <2250 bytes; Fragmentation and Reassembly of 802.11/Ethernet frames supported

Client Support
All Wi-Fi compatible clients; Power Save clients; Clients that perform active and passive scanning

NETWORK SPECIFICATIONS

Forwarding
IP Tunnel to Controller in Coordinated Mode 802.3/802.11 bridging in Bridge Mode

Network Interfaces
1 Auto-sensing 10/100 Base-TX Ethernet (RJ-45)

Addressing
DHCP or Manual Assignment

VLAN
802.1Q Tagging Support through controller

IEEE802.11a

Frequency Band
5.180 – 5.240 GHz; 4 Channels (36, 40, 44, 48), 5.260 – 5.320 GHz; 4 Channels (52, 56, 60 and 64), 5.745 -5.825 GHz; 5 Channels (149, 153, 157, 161, and 165), 5500-5700: 11 channels (100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)

Operating Channels Configurable based on country regulations

Data Rates 54, 48, 36, 24, 18, 12, 9 and 6 Mbps with automatic rate adaptation

Average Transmit Power 17 dBm

Receive Sensitivity -70 dBm at 54 Mbps, -86 dBm at 6 Mbps

IEEE802.11b/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

Average Transmit Power 17 dBm

802.11b 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 with automatic rate adaptation

802.11b Receive Sensitivity
-85 dBm at 11Mbps, -93 dBm at 1 Mbps with BER10E-5

802.11g Receive Sensitivity
-73 dBm at 54 Mbps, -85 dBm at 6 Mbps

PHYSICAL SPECIFICATIONS

Dimensions
9 1/4" width x 5 1/2" length x 1 1/4" depth
(23.5 cm width x 14.0 cm height x 3.8 cm depth)

Weight 15 oz. (0.43 kgs)

Power
802.3af PoE, 802.3 at 5V DC input
Draws 11.5W to 17W depending on configuration

Environmental
Operating Temperature: 0° to 55° C (32° F to 131° F)
Operating Humidity: 95% (non-condensing)
Storage Temperature: -10° to +70° C (-14° F to 158° F) ambient
Storage Humidity: 95% (non-condensing)

Interfaces
1 Auto sensing 10/100/1000 Base-TX Ethernet (RJ-45)
4 LEDs for monitoring power, Ethernet activity, 802.11a activity and 802.11b/g activity

Standard Warranty
1 year

AP150 Part Numbers

AP150
Dual radio 802.11a/b/g AP

Certifications

Wi-Fi Certified a/b/g

Standards Safety
UL 60950-1
CAN/CSA-C22.2 No. 60950-1
IEC 60950-1

Radio approvals

FCC Part 15.247, 15.407, 15.107 and 15.109
EN 300.328, EN 301.893 (Europe)
EMI and susceptibility (Class B)
ICES-003 (Canada)
VCCI (Japan)
EN 301.489-1 and -17 (Europe)
GITEKI (Japan)

For other countries and regions, please contact your local Meru representative for more specific regulatory information.

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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