AP150-CB

MERU AP150-CB WORKGROUP BRIDGE The Meru workgroup bridge enables simple and cost effective extension of the network over the air to bridge disparate devices and networks.

DUAL RADIO WORKGROUP BRIDGE

Workgroup bridge features and pricing to meet your needs, designed for the Virtualized Wireless LAN

PRODUCT OVERVIEW

The Meru Workgroup Bridge (AP150-CB) enables simple and cost effective extension of the network over the air to bridge disparate devices and networks. This standards-based, stand-alone bridge is ideal for connecting printers, Fax machines, point-of-sale devices and other business equipment to a wireless network within an office.

The AP150-CB can be utilized as an access point, enabled by a software upgrade, as needs change for the ultimate in deployment flexibility.

AP150-CB bridge supports all 2.4 GHz or 5GHz channels available within each supported regulatory domain. High output power and antenna diversity ensure the best possible range and throughput, with connectors to attach high-gain antennas for specialized applications.

The AP150 Workgroup Bridge provides a practical means of bridging devices and networks.

Product Benefits

:: Bridges an Ethernet LAN network to WLAN network

:: Dedicated 802.11a and 802.11b/g radios

:: Connectivity for up to 30 wired Ethernet devices to the wireless network

:: 802.3af power support

:: Software upgradeable to access point functionality

:: Simple set-up - standalone hardware does not require a controller

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, Cisco SCCP, SpectraLink SVP and Vocera
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, 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
One IEEE 802.11a and one IEEE 802.11b/g antenna
Standard Antenna Gain~ 2 dBi for 2.4 GHz, and 3 dBi for 5 GHz
Antenna gain not included in Average Transmit Power specified

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

IEEE802.11a

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), 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 -77 dBm at 54 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 -84 dBm at 1 Mbps

802.11g Receive Sensitivity -73 dBm at 54 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-CB
Dual radio 802.11a/b/g Workgroup Bridge (Upgradeable to an access point)

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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MERU
N E T W O R K S®