

# 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 Virtualized Wireless LAN 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

# AP150-CB

## 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; 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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