

# MERU CONTROLLER

Meru controllers provide a scalable solution for small, medium and large enterprise wireless deployments.



MC4100, MC3000 & MC1500 CONTROLLER

Scalable, Intelligent backbone of the virtualized wireless LAN







# **PRODUCT OVERVIEW**

Meru controllers allow network administrators to securely manage and easily control their wireless network while meeting mission critical enterprise demands. All controllers provide centralized configuration and management for ease of deployment, multilayer security, and scalability while eliminating cochannel interference and the need for channel planning.

The MC4100, supporting up to 300 access points and 3000 clients, provides centralized configuration and management for ease of deployment, multilayer security, N+1 redundancy and scalability. For larger network deployments with multiple controllers, MC4100 is E(z)RF™ Application Suite compliant and easily integrates with existing infrastructure.

The MC3000 supports up to 150 access points for medium size wireless deployments.

The Meru MC1500 Controller provides a performance optimized, cost effective solution for branch office and small to medium size enterprise wireless network deployments. The controller enables customers that start with a small deployment of 5 access points (APs) to grow their wireless network to 30 APs for a maximum of 500 clients.

# 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, 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

### **Security Firewall**

10,000 simultaneous sessions

System configured or Per User Radius configured firewall policy

#### MOBILITY

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

Virtual Cell Load Balancing Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

### **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

### WIRED/WIRELESS SUPPORT

## Wireless Compliance

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

# **Automatic Discovery & Configuration**

All Meru Access Points

# Wired/Switching

IEEE 802.1Q VLAN tagging, GRE Tunnelling and IEEE 802.1D Spanning Tree Protocol

### MC4100 PHYSICAL SPECIFICATIONS

#### **Dimensions**

17" width x 3 1/2" height x 22" depth (43.2 cm width x 8.9 cm height x 55.9 cm depth)

Weight 36 lbs; 42 lbs with packaging

### Power Consumption 300W

#### **Environmental**

Operating Temperature: 0° to 40° C (32° F to 104° F) Operating Humidity: 95% at 40° C (104° F) Storage Temperature: -40° to 85° C (-40° F to 185° F) Storage Humidity: 95% at 40° C (104° F)

#### Interfaces

4 10/100/1000 Base-T Ethernet, 2 Base-X SFP Serial Port (DB-9)

USB Port

Power On/Off Switch

Status Screen

Ethernet Port Status Lights (LED) for Link/Activity/Speed

### Mounting

2U Rack Mount

### **Standard Warranty**

1 year

### MC3000 PHYSICAL SPECIFICATIONS

### **Dimensions**

17" width x 1 3/4" height x 16 1/4" depth (43.2 cm width x 4.5 cm height x 41.3 cm depth)

Weight 25 lbs

### Power Consumption 300W

#### **Environmental**

Operating Temperature: 0° to 50° C (32° F to 122° F) Operating Humidity: 95% at 40° C (104° F) Storage Temperature: -40° to 85° C (-40° F to 185° F) Storage Humidity: 95% at 40° C (104° F)

#### Interfaces

2 10/100/1000 Base-TX Ethernet

Serial Port (RJ-45)

Power On/Off Switch

Status Screen Ethernet Port Status Lights (LED) for Link/Activity/Speed

### Mounting

1U Rack Mount

### **Standard Warranty**

1 year

# MC1500 PHYSICAL SPECIFICATIONS

### Dimensions

17" width x 1 3/4" height x 11" depth (43.2 cm width x 4.5 cm height x 28.0 cm depth)

Weight 8.6 lbs; 16 lbs with packaging

# Power Consumption 150W

### Environmental

Operating Temperature: 0° to 40° C (32° F to 104° F) Operating Humidity: 95% at 40° C (104° F) Storage Temperature: -40° to 85° C (-40° F to 185° F) Storage Humidity: 95% at 40° C (104° F)

### Interfaces

2 10/100/1000 Base-T Ethernet Serial Port (RJ-45) 2 USB 2.0 (reserved) Power On/Off Switch

Status Indicator (unused) HDD Indicator (unused)

Ethernet Port Status Lights (LED) for Link/Activity/Speed

### Mounting

1U Rack Mount

### Standard Warranty

1 year

### Certifications

Wi-Fi Certified a/b/g/n RoHS Compliant (MC1500)

### Standards Safety

UL 60950-1 (MC1500, MC4100) IEC 60950-1 (MC1500, MC4100) UL 1950 (MC3000)

### **EMC**

FCC Part 15/ICES-003 Class A VCCI Class A - Japan (MC1500, MC4100) EN 55022 - Europe

(MC1500, MC4100)

EN 55024 - Europe

(MC1500, MC4100)

MIC - Korea (MC4100) KCC - Korea (MC4100)

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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