End-to-end control over the wireless LAN for your small to medium enterprise

The MC1500 hardware controller optimizes wireless traffic across all access points and client devices to provide superior performance, reliability, and predictability in your wireless LAN. Powered by the System Director operating system, it allows you to easily control your wireless network while meeting mission-critical enterprise demands for wireless connectivity. It intelligently manages each device's connection, pooling and allocating network resources to flawlessly support a broad range of applications— including high-bandwidth applications like voice and video. The MC1500 supports the Service Assurance Application Suite to extend control and visibility over your Meru wireless LAN. It can be deployed as a physical hardware appliance or as a virtual appliance operating in a VMware environment.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tr>
<td>• Powered by System Director operating system</td>
<td>• Controls and optimizes wireless traffic</td>
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<td>• Airtime Fairness® allocates equal time across devices</td>
<td>• Ensures that all traffic operates at its maximum speed</td>
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<td>• Seamless integration with existing infrastructure, with support for diverse applications</td>
<td>• Delivers superior performance, scalability, and flexibility</td>
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<td>• Single channel architecture with channel layering capability</td>
<td>• Eliminates co-channel interference and the need for channel planning while enabling easy capacity expansion</td>
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<td>• Multilayered security: 802.1X authentication, encryption, firewall, rogue detection/suppression, and wireless IPS/IDS</td>
<td>• Protects sensitive data and aids in compliance</td>
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</table>

**APPLICATION:**
• Small to medium enterprises
• Remote offices

**CAPACITY:**
30 access points

**CONNECTIVITY:**
2 10/100/1000 Base-T Ethernet

To learn more about Meru's full suite of controllers, visit [www.merunetworks.com](http://www.merunetworks.com)
**MC1500 TECHNICAL SPECIFICATIONS**

**APPLICATION SUPPORT AND OVER-THE-AIR QoS**

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

**QoS**
Configurable dynamic QoS rules for 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), MSCHAPv2, 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 56-bit and 128-bit WEP keys, TKIP with MIC, AES, SSL, TLS

**Security Policy**
RADIUS-assisted, per-user and per-ESSID access control via MAC filtering
Multiple ESSID/ESSID, each with flexibility of separate and shared security policy

**Rogue Detection and Suppression**
All controllers have the intelligence to identify and classify rogue devices in 802.11n, 802.11a, and 802.11b/g

**Security Firewall**
Per-user firewall with fine-grained policy management
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
Access points automatically discover 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 E[i]RF™ Network Manager
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 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 Tunneling, and IEEE 802.1D Spanning Tree Protocol

**PHYSICAL SPECIFICATIONS**

**Dimensions**
17” width x 1 3/4” height x 11” 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° to 185° F)
Storage humidity: 95% at 40° C (104° F)

**Interfaces**
2 10/100/1000 Base-T Ethernet
2 USB 2.0 (reserved)
Power on/off switch
Status indicator (unused)
HDD indicator (unused)
Ethernet port status lights (LED) for link/activity/speed

**Access Point and Client Support**
30 APs and 500 Wi-Fi clients

**Mounting**
1u rack mount

**Standard Warranty**
1 year

To learn about Meru’s full suite of controllers, visit [www.merunetworks.com](http://www.merunetworks.com) or email your questions to: info@merunetworks.com

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**Wireless Standards**
- IEEE 802.11a/b/g/n
- RoHS Compliant
- Wi-Fi Certified a/b/g/n
- FCC Part 15/ICES-003 Class A
- VCCI Class A – Japan
- EN 55022 – Europe
- EN 55024 – Europe

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

**Part Numbers**

**MC3200**
Medium enterprises and branch offices
200 access points

**MC4200**
Large enterprises and regional offices
500 access points

**MC5000**
Large enterprises, headquarters, large campuses
1,500 access points

Meru delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network.

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