



# MC1550

## Wireless LAN Controller

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

The MC1550 WLAN controller optimizes traffic across wireless access points and client devices to provide high performance and predictability while addressing mission-critical enterprise demands for wireless connectivity. It supports up to 50 access points and 1000 client devices to deliver data, voice, and video applications in small enterprises and branch offices.

Powered by Meru's System Director operating system, the MC1550 creates a unified wireless LAN environment designed to deliver seamless mobility and superior reliability. System Director optimizes client distribution and channel utilization in both single- and multi-channel deployments, maximizing efficiency to make the most of available wireless

spectrum. Radio frequency virtualization simplifies deployment and allows easy capacity expansion as your needs evolve.

The controller manages authentication, encryption, and virtual private network (VPN) connections for your wireless network. You can easily extend the MC1550's capabilities with optional software for policy enforcement and wireless intrusion prevention. As with other Meru wireless controllers, the MC1550 integrates with the E(z)RF® network management suite, which combines with System Director to bring intelligent management and resilient wireless services to your network. It also integrates with Meru Identity Manager as part of a complete BYOD and guest access solution.

Features	Benefits
<ul style="list-style-type: none"> <li>Powered by System Director operating system</li> <li>Radio frequency virtualization</li> <li>Infrastructure-controlled, zero-loss handoffs and traffic load balancing</li> <li>Multilayered wireless LAN security: 802.1X authentication, encryption, firewall, and optional wireless IPS/IDS</li> <li>Seamless interoperability with multi-vendor network infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>Delivers highly predictable, resilient wireless services in both single- and multi-channel deployments</li> <li>Simplifies deployment and capacity expansion for your wireless network</li> <li>Offers seamless wireless mobility with superior roaming reliability</li> <li>Protects sensitive data and aids in compliance</li> <li>Supports existing technology investments</li> </ul>

<b>APPLICATION:</b> <ul style="list-style-type: none"> <li>Small enterprises</li> <li>Remote offices</li> </ul>	<b>CAPACITY:</b> <ul style="list-style-type: none"> <li>50 access points</li> <li>1000 clients</li> </ul>	<b>CONNECTIVITY:</b> <ul style="list-style-type: none"> <li>2 x 10/100/1000BASE-T Ethernet (RJ45)</li> <li>1 x serial console (RJ45)</li> </ul>
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## TECHNICAL SPECIFICATIONS

### QoS

WMM support  
Dynamic WMM rate adaptation  
Configurable QoS rules per user and application

### SECURITY

#### Access Control

WEP, WPA-PSK, WPA-TKIP, WPA2-AES, 802.11i, 802.1X (EAP-TLS, EAP-TTLS, PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-AKA, and EAP-MD5)  
802.1X and captive portal authentication against local database on the controller, RADIUS, and Active Directory  
RADIUS-assisted per-user and per-ESSID access control via MAC filtering

#### Security Firewall

Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering  
System-configured or per-user, RADIUS-configured firewall policies

### MANAGEMENT

#### Zero Configuration

Access points automatically discover controllers and download configuration settings for zero-touch, plug-and-play deployment

#### System Management

Upgrades and management using System Director/E(z)RF® Network Manager  
Support for SNMP  
Centralized WLAN security policies with multiple ESS profiles  
VLAN-specific administrative/security policies

#### Intelligent RF Management

Coordination of access points with load balancing for predictable performance

### VLAN SUPPORT

IEEE 802.1Q VLAN tagging, GRE Tunneling

### PHYSICAL SPECIFICATIONS

#### Power

One 12V, 3.75A (45W Max) AC/DC adapter included

#### Power Consumption

33.0 watts

#### Interfaces

2 x 10/100/1000BASE-T Ethernet (RJ45)  
1 x serial console (RJ45)

#### Mounting

Desktop mount  
1U rack mount (mounting kit required; included)

#### Dimensions

1.73" height x 10.70" width x 7.68" depth  
(4.4 cm height x 27.2 cm width x 19.5 cm depth)

#### Weight

4.4 lbs  
(2.0 kg)

#### Environmental

Operating temperature: 0°C to 40°C (32°F to 104°F)  
Operating relative humidity: 10% to 95% (non-condensing)  
Non-operating temperature: -20°C to 70°C (-4°F to 158°F)  
Non-operating relative humidity: 10% to 95% (non-condensing)

### Regulatory Approval

FCC part 15B Class B - USA  
UL 60950-1 - USA  
CSA C22.2 No. 60950-1-07 - Canada  
EN 60950-1 - EU  
IEC 60950-1 - International  
ICES-003 Class B - Canada  
EN55022 Class B - EU  
EN55024 - EU  
VCCI Class B - Japan

### Certifications

RoHS Compliant  
REACH Compliant  
WEEE Compliant

### Standard Warranty

1 year

### Part Numbers

Contact your Meru representative.

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.



Corporate Headquarters  
894 Ross Drive, Sunnyvale, CA 94089  
T +1.408.215.5300  
F +1.408.215.5301  
E [meruinfo@merunetworks.com](mailto:meruinfo@merunetworks.com)

For more information, visit [www.merunetworks.com](http://www.merunetworks.com) or email your questions to: [meruinfo@merunetworks.com](mailto:meruinfo@merunetworks.com)

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