MC6000

Wireless LAN Controller

Unmatched scalability for very large enterprises

The Meru MC6000 WLAN controller delivers maximum performance for very large enterprises, including those with remote sites or branch offices. It offers industry-leading capacity that makes it ideal for supporting resource-intensive applications in the largest, highest-density environments.

The controller's modular architecture makes it highly extensible, flexible, and dynamically scalable. With six 1-GbE/10-GbE ports per blade and a chassis that houses up to ten blades, it supports up to 5,000 access points and 50,000 clients and can accommodate over 200 Gbps of wireless traffic when fully configured.

The MC6000 is powered by Meru's System Director operating system to create a unified wireless LAN environment, delivering resilient wireless services with seamless mobility and superior reliability. System Director optimizes client distribution and channel utilization in both single- and multi-channel deployments.

The controller manages authentication, encryption, and virtual private network (VPN) connections. An integrated chassis health management module provides status information to Meru's E(z)RF™ network management suite. You can easily extend the MC6000's capabilities with optional software for policy enforcement and wireless intrusion prevention. It also integrates with Meru Identity Manager as part of a complete BYOD and guest access solution.

Features	Benefits
• Powered by System Director operating system • 7U chassis houses up to 10 controller blades with six 1-GbE/10-GbE SFP+ ports per blade • Infrastructure-controlled, zero-loss handoffs and traffic load balancing • Redundant hot-swappable fan and AC power supply	• Delivers highly predictable, resilient wireless services in both single- and multi-channel deployments • Scales to meet the needs of very large enterprises by supporting up to 5,000 access points and 50,000 clients • Delivers seamless mobility with superior roaming reliability • Prevents service-impacting downtime for maximum availability

APPLICATION:
- Very large enterprises
- Headquarters
- Large campuses

CAPACITY:
5,000 access points
50,000 clients

CONNECTIVITY:
Six 1-GbE/10-GbE SFP+ ports per blade
Maximum of 10 blades per controller

For more information about the MC6000 Controller, visit **www.merunetworks.com**

MC6000

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

Chassis Management
Integrated chassis management module provides status information to E(z)RF management applications

LINK AGGREGATION (BONDING)
6-to-1 (single bonding) is the default option
3-to-1 (dual bonding) option can be used for active-active or active-redundant modes
Bonding interface must be of the same type (all 1 GbE or all 10 GbE)

VLAN SUPPORT
IEEE 802.1Q VLAN tagging, GRE Tunneling

PHYSICAL SPECIFICATIONS
Power
Two 1620W power supplies (included)
Supports two additional 1620W power supplies (optional; field upgradeable)

Power Consumption
MC6K-BLC-6P-US (one controller blade): 261 watts
MC6K-CHS-US (chassis, two power supplies, one 1-Gb switch, chassis management module, and power cord): 208 watts
Power consumption for region-specific part numbers are the same as for U.S. part numbers

Interfaces
Controller blades: six 1-GbE/10-GbE SFP+ interfaces per blade
Maximum of 10 blades per chassis
1/10 Gb auto-negotiation or 10 Gb only
SFP+ transceivers purchased separately
Transceiver supported for 1/10 Gb auto-negotiation in short reach
850 nm multimode: Intel FTLX8571D3BCV-IT
Transceiver supported for 1/10 Gb auto-negotiation in long reach
1310 nm single mode: Intel FTLX1471D3BCV-IT

Mounting
7U rack mount
Double rack required
Guide rail included

Dimensions
12.1" height x 18.5" width x 29.0" depth
(30.7 cm height x 47.0 cm width x 73.7 cm depth)

Weight
80–240 lbs, depending on configuration
(36.3–108.9 kg)

Environmental
Operating temperature: 10°C to 35°C (50°F to 95°F)
Non-operating temperature: -40°C to 70°C (-40°F to 158°F)
Operating relative humidity: 8% to 90% (non-condensing)
Non-operating relative humidity: 5% to 95% (non-condensing)

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

Certifications
RoHS Compliant
REACH Compliant
WEEE Compliant

Standard Warranty
1 year

Part Numbers
MC6K-CHS-US: MC6000 7U chassis for U.S. only; two power supply units providing redundancy for up to three blades; one 1-GbE switch; and one chassis management module. Ships with U.S. power cord.

MC6K-CHS-XX: MC6000 7U chassis (non-U.S); two power supply units providing redundancy for up to three blades; one 1-GbE switch; and one chassis management module. Add -xx country code suffix for power cord: CA (Canada), JP (Japan), UK (United Kingdom), EU (Europe).

MC6K-BLC-6P-US: MC6000 6-port controller blade for U.S. only, with support for 10 Gigabit Ethernet and/or Gigabit Ethernet interfaces. Supports SFP+ transceivers (not included); includes System Director software (requires System director 5.3 or higher).

MC6K-BLC-6P-XX: MC6000 6-port controller blade (non-U.S.) with support for 10 Gigabit Ethernet and/or Gigabit Ethernet interfaces. Supports SFP+ transceivers (not included); includes System Director software (requires System Director 5.3 or higher)

MC6K-PS-X2-US: Two additional power supply units for the MC6000 chassis (U.S. only). Ships with two U.S. power cords.

MC6K-PS-X2-XX: Two additional power supply units for the MC6000 chassis (non-U.S). Ships with two power cords. Add -xx country code suffix for power cord: CA (Canada), JP (Japan), UK (United Kingdom), EU (Europe).

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.

For more information about the Meru MC6000 Controller, visit www.merunetworks.com or email your questions to: **info@merunetworks.com**

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