Data Sheet

MERU NETWORKS

Meru MC1500 Controller

Solution for Branch Office and Medium Sized Converged Data and Voice Wireless Networks

MC1500

Key Product Benefits:

- Unique multi-layer security with automatic detection and prevention of rogue APs

- Intelligent contention management for the highest possible wireless client density

- QoS for traffic prioritization both upstream and downstream, assuring toll quality voice

- Auto discovery and configuration of APs without time intensive manual tuning

- Automatic load balancing of clients for consistent, reliable throughput

The Meru MC1500 Series Controller provides a performance optimized, cost effective solution for branch office and small to medium size enterprise wireless network deployments. MC1500 controller enables customers that start with a small deployment, 5 access points (APs) to grow their wireless network to support up to 30 APs using the same controller. The MC1500 controller allows network administrators to securely manage and easily control their wireless network while meeting mission critical enterprise demands. As part of the Meru Networks controller family, the MC1500 provides centralized configuration and management for ease of deployment, multilayer security, N+1 redundancy, and scalability while eliminating co-channel interference and the need for channel planning. Additionally, with Air Traffic Control™ technology MC1500 supports toll quality voice over WLAN. For distributed enterprise deployments with multiple controllers, MC1500 is E(z)RF™ Application Suite compliant and easily integrates with existing infrastructure.

Product Overview:

- With support for IEEE security standards, WiFi Alliance Certification and Meru's unique multi-layer security approach, security policies follow users as they roam without re-authentication. Additionally, rogue Access Points (APs) are automatically detected and prevented without degradation of performance.

- Ease of deployment with support for Virtual Cell™ and single channel implementations making it easier to install and upgrade networks without requiring extensive site survey and complex channel planning.

- Air Traffic Control™ technology provides:
  - Intelligent contention management allowing the WLAN to effectively meet growing bandwidth demands and support the highest possible wireless client density.
  - Quality of Service (QoS) for traffic prioritization of both upstream and downstream to guarantee access for latency-sensitive applications, assuring toll quality voice over Wireless LANs.

- Auto discovery and configuration of APs selects best power and channel settings without time intensive manual tuning.

- Centralized intelligence automatically load balances clients for consistently reliable throughput.

About Meru Networks

Meru Networks is the global leader in 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 state, local and federal government agencies. Meru's award winning Air Traffic Control technology brings the benefits of the cellular world to wireless LAN environment. Meru Wireless LAN 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 for converged voice and data services over a single WLAN infrastructure.

MC1500

Technical Specifications

For more information about the Meru Controller Family, or to learn how to purchase products, visit www.merunetworks.com

Or email your questions to: info@merunetworks.com

PERFORMANCE AND CAPACITY

Application	Branch Office and Small to Medium Enterprise
Capacity and Performance	Up to 30 Access Points
	Up 500 Users
	Up to 800 Mbps of Encrypted and Unencrypted Throughput

APPLICATION SUPPORT AND OVER-THE-AIR QoS

SIP and H.323 support	Support for SIP and H.323v1 applications and codecs
QoS Rules	Configurable dynamic QoS rules
	Over-the-air upstream and downstream 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 Admission Control (CAC) and Call Load Balancing

SECURITY

Authentication	Combination of captive portal, 802.1x and open authentication
	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 64-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
Dual Radios	Centralized, continuous Rogue AP detection and suppression/permit for 802.11a/n and 802.11b/g/n
Security Firewall	System configured or Per user Radius configured firewall policy

MOBILITY

Zero-loss Handoffs	Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients
Multi-vendor	Interoperates with non-Meru AP's for hand offs
High Availability	N+1 configuration for automatic fail-over and recovery
	No performance degradation with increased Wi-Fi clients
	Virtual cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

WIRED/WIRELESS SUPPORT

Automatic discovery of Access Points	AP300 Series , AP200 Series, AP150, and OAP180
Wireless compliance	802.11a, 802.11b, 802.11g, 802.11n Draft 2.0
Wired/Switching	IEEE 802.1Q VLAN tagging, GRE Tunneling

CENTRALIZED MANAGEMENT

Automatic	Automatically selects power and channel settings
	Centralized and remote management and software upgrades via System Director web-based GUI, SNMP, Cisco-like 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 access points
	Co-channel interference management

PRODUCT SPECIFICATIONS

Interfaces	
Ethernet	2 10/100/1000Base-T
Serial Port	Yes (RJ-45 based)
USB	2 USB 2.0 (reserved)
Indicators	
Power – On/Off	Yes
Status	Yes (Unused)
HDD	Yes (Unused)
Ethernet Ports	LED Link/Activity/Speed
Power Supply	150W
Dimensions (H x W x D)	1.75" x 16.7" x 10.6"
Weight	8.6 lbs/3.9Kg (without packaging); 16.0 lbs/7.25Kg (with packaging)
Mounting	1U rack mount

ENVIRONMENTAL

Operating	Temperature: 0 °C to 40 °C
Storage and Transit	Temperature: -20 °C to 70 °C
Humidity, Operating and Non-Operating	5-95% non condensing

COMPLIANCE

Regulatory and Safety Compliance	EMC: FCC Part 15/ICES-003 Class A; Japan VCCI Class A; EU EN 55022: 2006 and EN 55024: 1998/A1: 2001/A2: 2003; Korea KCC
	Safety: cUL 60950-1; IEC/EN 60950-1; CB scheme and report with current national deviations Per country certification
	RoHS compliant
Standard Warranty	Hardware 1 year; Software 90 days

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