

Data Sheet

RS4000

Key Product Benefits:

capacity

bandwidth

complexity

400% increase in WLAN

Simplified deployment-no

channel planning required

Toll-quality Voice over

WLAN (VoWLAN) with

dynamic reservation of

Add capacity without

Radio Switch Family Increase WLAN capacity without the complexity



Product Overview:

Four Radio Omni-directional Coverage

The Meru RS4000 Radio Switch is ideal for indoor applications. Using Meru's patent-pending wideband omni-directional antenna, the RS4000 can simultaneously serve multiple 802.11b/g and 802.11a channels throughout every square foot of the coverage area. The built-in Meru Air Traffic Control™ technology controls contention on the network while Meru standards-based QoS technology dynamically reserves bandwidth overthe-air to provide unprecedented VoIP scale and quality even in the presence of heavy data traffic. With the RS4000, WLANs are no longer bound to the density/performance trade-off constraints governing traditional access points.

Eliminate RF Co-Channel Interference and Handoff Issues

Traditional WLANs require varying levels of RF knowledge in order to properly deploy and manage interference and performance issues on the network. The Meru RS4000 eliminates channel planning and trivializes RF site surveys by serving all channels simultaneously. The omni-directional antennae on the RS4000 eliminates the need for special directional antennae purchases. When deployed together with other RS4000 radio switches and a Meru Controller, all the WLAN channels extend anywhere in the building without unique WLAN technology from Meru removes the challenges associated with RF coverage prediction, as well as channel assignments, location and distance considerations. Meru simplifies WLAN deployment so the only question that remains is, "Where do I want service?".

Upgrade Performance Without Changing Your Network

Due to the limitations of other access points, WLAN performance and price were always thought to be tied together. For example, to achieve higher density coverage, more access points must be deployed in order to serve more channels. The Meru RS4000 shatters this model by providing the performance of multiple access points in a single product. This results in a savings of over 70% in enterprise deployment and ongoing management costs. The RS4000 omni-directional antenna enables enterprise IT departments to upgrade network capacity without ever worrying about changing the coverage area. The Virtual Cells made possible by Meru WLAN technology allow every square foot of coverage area to be simultaneously served by all channels, which results in unprecedented voice and data performance at a fraction of the cost of traditional WLAN access points.

info@440tin.cb.th wireff: \$444 (0) 1245 808195 Fax: +44 (0) 1245 808299

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 the wireless LAN environment. The 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.



RS4000 Technical Specifications

For more information about the Meru RS4000, visit: www.merunetworks.com

Or email your questions to: info@merunetworks.com

RS4000 PART NUMBERS

R54000- BWW	Radio Switch with four 802.11 abg radios, includes 2.4GHz and 5 GHz 360° Omni-direc- tional multi-channel antenna
RS4000- BWW-180	Radio Switch with four 802.11abg radios, includes 2.4GHz and 5 GHz 180° multi-channel antenna
MN-ACC- ANTRSO	Radio Switch 360° 3/5dBi gain antenna, multi-channel omni- directional antenna for simultaneous 2.4GHz & 5GHz operation
MN-ACC- ANTRSOH	Radio Switch 180° 3/5dBi gain antenna, multi-channel omni- directional antenna for simultaneous 2.4GHz & 5GHz operation



Copyright © 2007 Meru Networks, Inc. All rights reserved worldwide. No part of this document may be reproduced by any means nor translated to any electronic medium without the written consent of Meru Networks, Inc. Specifications are subject to change without notice. Information contained in this document is believed to be accurate and reliable, however, Meru Networks, Inc. assumes no responsibility for its use, Meru Networks is a registered trademark of Meru Networks, Inc. in the U.S. and worldwide. All other trademarks mentioned in this document are the property of their respective owners.

DS_RS4000_1107_V4

CONNECTIVITY	
Wireless Configuration	Two 802.11b/g, two 802.11a
Ethernet	Two 10/100 Mbps
WIRELESS SPECIFICA	TIONS
Wireless Interfaces	Four radios – two 802.11a, two 802.11b/g
Antenna	Two RP-SMA jacks on housing for antenna; 5dB Omni, Indoor antenna
Wireless Medium Access	Wi-Fi compliant 802.11 MAC standard
Client Support	All Wi-Fi compatible clients
	Power Save clients
	Clients that perform active and passive scanning
MANAGEMENT	
Administrative Access	SSH, Telnet, GUI – through controller
Configuration	Automatically downloaded from Controller
	Can be modified through Controller GUI/CLI or E(z)RF
★ 11 1 2 2 12 12 1	Management Station
I roubleshooting and Local	Advanced troubleshooting through controller
Access	Historical reports and alerts through E(z)RF
Kernote/Central	E(Z)KF IVIANAGEMENT STATION FOR: MONITORING, Alerts,
SNMP Support	SNMP v16/2c Agent & Monitoring through controller
Simil Support	MIBs
Remote Logging	Syslog v1 and v2—failure alerts and change notifica-
	tions through controller and E(z)RF
Software Upgrade	Automatic with new controller releases
PHYSICAL SPECIFICA	
Dimensions	9.5" (W) X 8.5" (L) X 3.875 (H)"
Power Type	2 X Power over Ethernet (IEEE 802.3af) or optional
	external 5V, 25-30W power adapter
Max. Power Draw	22W
Indicators	4 LEDs for monitoring power, 802.11b/g activity,
	802.11a activity, Ethernet activity

LAN/WLAN	
Forwarding	802.11/802.3 Bridging
RS4000 Network Addressing	One IP address per system
	Can be DHCP or Manual configuration. DHCP pass-
	through for clients
Load-balancing	Client load-balancing across channels based on traffic
SECURITY	
Security	802.11i: WEP-64, WEP-128, 802.1X with EAP-TLS/
	TTLS/PEAP, WPA, WPA2, VPN Pass through
RADIUS Interoperability	Microsoft IAS; FreeRADIUS; Steel-Belted Radius, Cisco
	ACS
REGULATORY	
RF Certifications	Radio Compliance: FCC Part 15
	Canada RSS210
	EN 300 328 V1.6.1 (11/2004)
	EN 301 893 V1.3.1 (08/2005)
	Japan Technical Regulations
EMC	FCC Part 15
	EN 301 489-17 V1.2.1 (08/2002)
Safety	UL2043 (plenum)
	cUL 60950-1 First Edition
	IEC/EN 60950-1 First Edition with national deviations
Warranty	Hardware 1 year; Software 90 days
Service	Ked Carpet Service options