

MSR1000

High Performance Indoor Wireless Network Router



Azalea's MSR1000 Advantages

Lower Operating Expenses

Reduces cost of deployment by simplifying installation and eliminating backhaul wiring.

Intelligent Wireless Routing

Maximizes user throughput and maintains network integrity through Adaptive Wireless Routing (AWR) technology that adapts flexibly to topological and radio link quality changes.

Quality of Service

Optimizes mesh-wide network performance and facilitates convergence of voice, video and data communications.

End-to-End Security

Secures communications between clients and access points through IEEE 802.1X, WEP, WPA and WPA2.

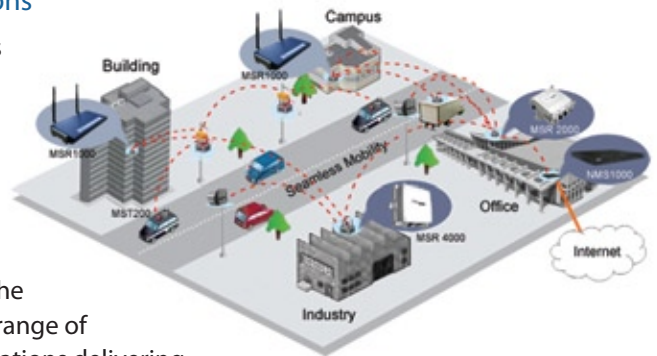
Delivering Network Intelligence to the World of Broadband Wireless

Seamlessly Connects Indoor & Outdoor Networks

The MSR1000 is a high performance indoor router with best-in-class price and performance characteristics. The MSR1000 integrates seamlessly with your existing network and provides excellent indoor coverage while ensuring seamless handover between indoor and outdoor networks. Designed for maximum throughput, scalability and ease of use, the MSR1000 ensures high signal speed, extended transmission, enhanced coverage and security in demanding real-time applications for voice and video for municipal, public safety, educational and industrial environments.

Layer-3 Network Operations

Azalea's broadband wireless network solutions interoperate with your existing network infrastructure. Combining Motrix™ distributed cross IP subnet roaming with Layer-3 AWR™ technology, the MSR1000 supports a broad range of voice, video and data applications delivering the highest performance and seamless mobility.



Adaptive Wireless Routing™ (AWR) Technology

The AWR technology dynamically optimizes traffic routes between nodes for high network performance and system capacity, enabling the MSR1000 to deliver high throughput and low latency performance. It works well for both mobile and fixed wireless mesh networks. Azalea's AWR technology makes the wireless mesh network flexible, scalable and resilient from end-to-end.

Dual-Radio Architecture

The MSR1000 supports two independent radios each configurable to ensure maximum throughput and optimum network performance. The dual-radio architecture separates the mesh backbone traffic from the edge access traffic.

Network Management

The Azalea Network Management System (NMS) provides integrated real-time management and monitoring of Azalea mesh products using a java applet based GUI. Network managers readily realize real-time network capability surveillance and network failure alarms.

Applications

Carrier Grade Broadband Wireless Infrastructure

Versatile deployment options — an all-wireless mesh network or a broadband wireless access network with hybrid wired/wireless backhaul.

Video Surveillance

Transmits high-definition video using Active Video Transport™ (AVT) technology for mission-critical video applications, video surveillance cameras and monitors.

Wireless Mobility

Offers high-speed roaming in a Layer-3 implementation, allowing uninterrupted Internet access on the move.

Wiring-free Environments

Wireless broadband network infrastructure can be easily deployed for applications where wiring is unavailable such as oil fields, factories and warehouses.

VoIP communications

Provides cross-IP subnet roaming and maintains a continuous connection for VoIP applications.

About Azalea

Azalea Networks delivers network intelligence to broadband wireless infrastructure through an innovative wireless routing technology that sets new standards in price and performance.

Contact an NVR-PRO.com Sales Representative for more information

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Technical Specifications

Wireless

Up to 2 radios that can each work in either AP mode or Backhaul mode

Supports 802.11a/b/g and 4.9GHz

Up to 4 BSSID for each radio

Up to 16 SSID for each radio

Frequency bands

2.400 — 2.483GHz, 5.15 — 5.35GHz, 5.47 — 5.725GHz, 5.725 — 5.85GHz, 4.94 — 4.99GHz

Transmit Power

Access: 100mW (20dBm)

Backhaul: 100mW (20dBm)

Receiver Sensitivity

802.11a: -92 dBm @ 6 Mbps

802.11b: -96 dBm @ 1 Mbps

802.11g: -96 dBm @ 1 Mbps

Modulation: OFDM, DSSS, CCK

Software

Network Address Translation (NAT)

OSPF dynamic & static routing connect to wired network

DHCP service and relay

Adaptive Wireless Routing (AWR)

For more see the Azalea AOS Data Sheet.

Hardware

4+1 10/100M Base T Ethernet interfaces

4 RP-SMA antenna connectors (50 Ω), diversity reception capacity (optional)

Power Supply

Power: 100~240 VAC 50/60Hz

POE support in PD mode (IEEE 802.3af)

Power consumption: Typical: 5.5W, Maximum: 6.8W

Physical

Weight: 4 pounds (1.8 kgs)

Dimensions: 11" x 5.5" x 1.5" (485mm x 295mm x 85mm)

Shipping Weight: 5 pounds (2.5 kgs)

Shipping Dimensions: 19.1" x 11.6" x 3.3" (485 mm x 295 mm x 85 mm)

Environmental

Operating temperature: 0 to 50° C (32° F to 122° F)

Storage Temperature: 0 to 50° C (32° F to 122° F)

Humidity: 5% to 95% (non-condensing)

Transportation: ISTA 2A

Security

Unique wireless router authentication and leading edge enterprise-class data encryption on transmission links to protect users' privacy.

Fully supports 802.11i, MAC address filtering, Radius, WEP, WPA, WPA2 and 802.1x

TKIP (upto 128bit), PSK, AES (upto 256 bit) , TLS and TTLS

Multi-VLAN for isolation of users plus physical layer isolation of wireless terminals

Approvals

EMC: CFR47 FCC Part 15, RSS-Gen

RF: CFR47 FCC Part 15, RSS-210

Certification: FCC, IC, SRRC (China)

Management

Remote manager via web browser

CLI

SNMP v1/v2/v3c

Remote software upgrade

Web-based router management interface

DHCP IP addressing

For more see to the Azalea NMS Data Sheet.

Ordering Information

MSR1K2SS-XX

- Azalea MSR1000 Indoor Wireless Router
- Two 802.11a/b/g 100mW radios (2.4GHz, 5GHz, 4.9GHz)
- One 5.8GHz omni antenna
- One 2.4GHz omni antenna
- One ethernet cable
- One serial console cable
- 2m power cable

Accessories

A variety of accessories are available for use with the Azalea routers. These include omni-directional antennas (for access), directional antennas (for backhaul), ethernet cables, power cables and console cables. Please see your local Azalea representative for additional details.