

MSR2000

High Performance Outdoor Wireless Network Router



www.NVR-PRO.com



Azalea's MSR2000 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.

Self-Configuring

Creates a self-organizing, self-healing wireless mesh, and intelligently selects the optimum data path through the mesh.

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.

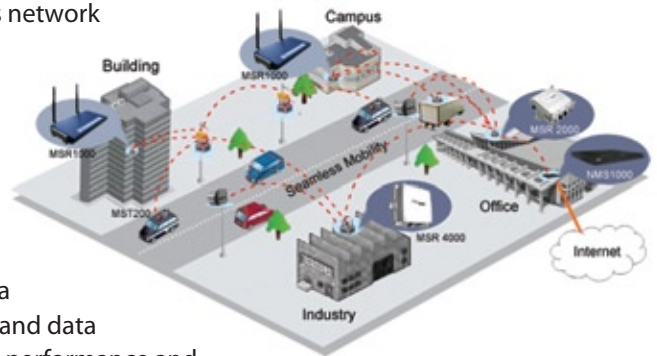
Delivering Network Intelligence to the World of Broadband Wireless

Superior Outdoor Coverage at the Edge of the Network

The Azalea MSR2000 is a high-end broadband wireless network router designed to deliver routing, roaming, and video transport. The MSR2000 offers outstanding dual-radio performance as a leaf-node at the edge or a key-node in a mesh network. Azalea's MSR2000 is ideal for bandwidth intensive voice, video and data transmission, especially in harsh outdoor environments. With enhanced network intelligence, the MSR2000 ensures high performance and easy expansion of large scale networks.

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™ routing technology, the MSR2000 supports a broad range of voice, video and data applications delivering high 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 MSR2000 to deliver high throughput and low latency performance. Designed specifically for wireless mesh technology, 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 MSR2000 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 — as an all-wireless mesh network or a fixed broadband wireless access network with hybrid wired / wireless backhaul.

Wireless Mobility

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

Scalable Wi-Fi

Delivers seamless mobility, reliability and security with scalable Wi-Fi infrastructure across indoor and outdoor networks.

Video Surveillance

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

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

www.NVR-PRO.com

Toll Free: 1.888.919.2263
International: +1.845.343-4077
Fax: +1.845.343.4299

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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), 400mW (26dBm)
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)
DHCP service and relay
Adaptive Wireless Routing (AWR)
For more see the Azalea AOS Data Sheet.

Hardware

Autosensing 10/100M Base-T Ethernet interfaces (Optional support 802.3af-compliant PoE out)
2 N type antenna connectors (50Ω)

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.

Power Supply

Power: 100~240 VAC 50/60Hz
Power consumption: Voltage: 5V
Dual 100mW Radios
Minimum: 5W, Typical: 6W, Maximum: 7.5W
Dual 400mW Radios
Minimum: 5W, Typical: 8W, Maximum: 10W

Physical

Dimensions: 14" x 9.5" x 4"
(360mm x 240mm x 105mm)
Weight: 7 pounds (3.25 kgs)
Shipping Weight: 16.6 pounds (7.5 kgs)
Shipping Dimensions: 13.2" x 12.5" x 11.7"
(335mm x 315mm x 295mm)

Environmental

Operating temperature: -40 to 55° C (-40 to 131° F)
Storage Temperature: -40 to 88° C (-40 to 190.4° F)
Humidity: 5% to 95%
Weather rating: IP66
Wind survivability: up to 165 mph
Shock & Vibration: ETSI 300-19-2-4 spec T41.E class 4M3
Transportation: ISTA 2A

Approvals

Safety: EN 60950-1, IEC60950-1, UL 60950-1, CAN/CSA-C22.2 No.60950-1
EMC: EN301 489, EN55022, EN61000, FCC Part 15, RSS-Gen
RF: CFR47 FCC Part 15, RSS-210, EN 300 328, EN 301 893
Certification: FCC, IC, CE, CB, cTUVus, RoHS, SRRC (China)

Ordering Information

Standard Components

- Azalea MSR2000 Outdoor Wireless Router
- One mounting kit with sun shield
- 4.5m US power cord

MSR2K2SS-XX

- Standard Components
- Two 802.11 a/b/g 100mW radios (2.4GHz, 5GHz, 4.9GHz)

MSR2K24S-XX

- Standard Components
- One 802.11a/b/g 100mW radio (2.4GHz, 5GHz, 4.9GHz)
- One 802.11b/g 400mW radio (2.4GHz)

MSR2K2SS-XX- P

- Standard Components
- Two 802.11 a/b/g 100mW radios (2.4GHz, 5GHz, 4.9GHz)
- PoE on one Ethernet port (PSE mode)

MSR2K24S-XX- P

- Standard Components
- One 802.11a/b/g 100mW radio (2.4GHz, 5GHz, 4.9GHz)
- One 802.11b/g 400mW radio (2.4GHz)
- PoE on one ethernet port (PSE mode)

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.

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