Overview

Models

HP MSR900 Router	JF812A
HP MSR920 Router	JF813A
HP MSR900-W Router	JF814A
HP MSR920-W Router	JF815A
HP MSR900-W Router (NA)	JG207A
HP MSR920-W Router (NA)	JG208A

Key features

- Converged routing, switching, security, and WLAN
- Integrated 2 Fast Ethernet WAN, 4/8 LAN on board
- Unified 802.11b/g wireless LAN and 3G wireless WAN
- Embedded encryption, firewall, security features
- A unified management platform

Product overview

The HP MSR900 router series is a component of the HP FlexBranch module of the HP FlexNetwork architecture. HP MSR900 series routers deliver integrated routing, switching, security, and 802.11b/g wireless LAN in a single box for secure, reliable small branch connectivity. These routers are perfect % ranch-in-a-box political p

Features and benefits

Quality of Service (QoS)

- Traffic policing-supports Committed Access Rate (CAR) and line rate
- Congestion management-supports FIFO, PQ, CQ, WFQ, CBQ, and RTPQ
- Congestion avoidance-Weighted Random Early Detection (WRED)/Random Early Detection (RED)
- Other QoS technologies-support traffic shaping, FR QoS, and MP QoS/LFI

Management

- Industry-standard CLI with a hierarchical structure-reduces training time and expenses, and increases productivity in multivendor installations
- **Management security**-multiple privilege levels, with password protection, restrict access to critical configuration commands+ACLs provide telnet and SNMP access+local and remote syslog capabilities allow logging of all access
- **SNMPv1, v2, and v3**-provide complete support of SNMP+provide full support of industry-standard Management Information Base (MIB) plus private extensions+SNMPv3 supports increased security using encryption
- Remote monitoring (RMON)-uses standard SNMP to monitor essential network functions+supports events, alarm, history, and





Overview

statistics group plus a private alarm extension group

- FTP, TFTP, and SFTP support⁻FTP allows bidirectional transfers over a TCP/IP network and is used for configuration updates⁺ Trivial FTP is a simpler method using User Datagram Protocol (UDP)
- **Debug and sampler utility-**supports ping and traceroute for both IPv4 and IPv6
- **Network Time Protocol** (NTP)-synchronizes timekeeping among distributed time servers and clients **keeps consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time
- Info center-provides a central information center for system and network information+aggregates all logs, traps, and debugging information generated by the system and maintains them in order of severity+outputs the network information to multiple channels based on user-defined rules
- **Network Quality Analyzer** (NQA)-analyzes network performance and service quality by sending test packets, and provides network performance and service quality parameters such as jitter, TCP, or FTP connection delays+allows network manager to determine overall network performance and diagnose and locate network congestion points or failures

Connectivity

- Packet storm protection-protects against broadcast, multicast, or unicast storms with user-defined thresholds
- **Loopback**-supports internal loopback testing for maintenance purposes and an increase in availability+loopback detection protects against incorrect cabling or network configurations and can be enabled on a per-port or per-VLAN basis for added flexibility
- **3G access support**-provides support for popular USB 3G modems-for a list of specific modems, please refer to your local product manager

Performance

- **Excellent forwarding performance**-provides forwarding performance up to 100 Kpps+meets current and future bandwidth-intensive application demands for enterprise businesses
- Embedded encryption-supports up to 100 VPN tunnels and 8 Mbps encryption throughput

Resiliency and high availability

- **Backup Center**-acts as a part of the management and backup function to provide backup for device interfaces +delivers reliability by switching traffic over to a backup interface when the primary one fails
- Virtual Router Redundancy Protocol (VRRP): allows groups of two routers to dynamically back each other up to create highly available routed environments supports VRRP load balancing

Layer 2 switching

- **Spanning Tree Protocol**-fully supports standard IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping⁻effectively control and manage the flooding of multicast packets in a Layer 2 network
- Port mirroring-duplicates port traffic (ingress and egress) to a local or remote monitoring port
- Port isolation-increases security by isolating ports within a VLAN while still allowing them to communicate with other VLANs
- VLANs=support IEEE 802.1Q-based VLANs
- **sFlow**-allows traffic sampling

Layer 3 services



Overview

- Address Resolution Protocol (ARP)⁻ determines the MAC address of another IP host in the same subnet⁻ supports static ARPs⁻ gratuitous ARP allows detection of duplicate IP addresses⁻ proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network
- **Dynamic Host Configuration Protocol** (DHCP)-simplifies the management of large IP networks and supports client and server-DHCP Relay enables DHCP operation across subnets

Layer 3 routing

- Static IPv4 routing=provides simple, manually configured IPv4 routing
- **Routing Information Protocol**-uses a distance vector algorithm with UDP packets for route determination supports RIPv1 and RIPv2 routing includes loop protection
- **OSPF**-Interior Gateway Protocol (IGP) uses link-state protocol for faster convergence+supports ECMP, NSSA, and MDS authentication for increased security and graceful restart for faster failure recovery
- Border Gateway Protocol 4 (BGP-4)-Exterior Gateway Protocol (EGP) with path vector protocol uses TCP for enhanced reliability
 for the route discovery process, reduces bandwidth consumption by advertising only incremental updates, and supports extensive
 policies for increased flexibility, as well as scales to very large networks
- Intermediate system to intermediate system (IS-IS)*Interior Gateway Protocol (IGP) using path vector protocol, which is defined by the ISO organization for IS-IS routing and extended by IETF RFC 1195 to operate in both TCP/IP and the OSI reference model (Integrated IS-IS)
- Static IPv6 routing-provides simple, manually configured IPv6 routing
- Dual IP stack-maintains separate stacks for IPv4 and IPv6 to ease transition from an IPv4-only network to an IPv6-only network design
- Routing Information Protocol next generation (RIPng)² extends RIPv2 to support IPv6 addressing
- OSPFv3-provides OSPF support for IPv6
- BGP+-extends BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing
- IS-IS for IPv6-extends IS-IS to support IPv6 addressing
- IPv6 tunneling-is an important element for the transition from IPv4 to IPv6-allows IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet-supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels
- **Policy routing**-allows custom filters for increased performance and security supports ACLs, IP prefix, AS paths, community lists, and aggregate policies

Security

- Access control list (ACL)-supports powerful ACLs for both IPv4 and IPv6+ACLs are used for filtering traffic to prevent unauthorized users from accessing the network, or for controlling network traffic to save resources+rules can either deny or permit traffic to be forwarded+rules can be based on a Layer 2 header or a Layer 3 protocol header+rules can be set to operate on specific dates or times
- TACACS+-is an authentication tool using TCP with encryption of the full authentication request that provides added security
- Network login-standard IEEE 802.1x allows authentication of multiple users per port
- RADIUS-eases security access administration by using a password authentication server
- **Network address translation** (NAT)-supports one-to-one NAT, many-to-many NAT, and NAT control, enabling NAT-PT to support multiple connections-supports backlist in NAT/NAT-PT, a limit on the number of connections, session logs, and multi-instances
- **Secure Shell** (SSHv2)-uses external servers to securely login into a remote device or securely login into MSR from a remote location+with authentication and encryption, it protects against IP spoofing and plain text password interception+increases the security of SFTP transfers



Overview

- Unicast Reverse Path Forwarding (URPF)-allows normal packets to be forwarded correctly, but discards the attaching packet due to lack of reverse path route or incorrect inbound interface-prevents source spoofing and distributed attacks
- IPSec VPN-supports DES, 3DES, and AES 128/192/256 encryption, and MD5 and SHA-1 authentication
- **Dynamic Virtual Private Network** (DVPN)-collects, maintains, and distributes dynamic public addresses through the VPN Address Management (VAM) protocol, making VPN establishment available between enterprise branches that use dynamic addresses to access the public network-compared to traditional VPN technologies, DVPN technology is more flexible and has richer features, such as NAT traversal of DVPN packets, AAA identity authentication, IPSec protection of data packets, and multiple VPN domains

Convergence

- Internet Group Management Protocol (IGMP)⁻ is used by IP hosts to establish and maintain multicast groups⁻ supports IGMPv1, v2, and v3⁻ utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks
- **Protocol Independent Multicast** (PIM)⁻is used for IPv4 and IPv6 multicast applications[‡]-supports PIM Dense Mode (PIM-DM), Sparse Mode (PIM-SM), and Source-Specific Mode (PIM-SSM)
- **Multicast Source Discovery Protocol** (MSDP)⁻ is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- Multicast Border Gateway Protocol (MBGP)-aallows multicast traffic to be forwarded across BGP networks and kept separate from unicast traffic

Integration

- **Embedded NetStream**-local and global server load-balancing module improves traffic distribution using powerful scheduling algorithms, including Layer 4 to 7 services+monitors the health status of servers and firewalls
- **Embedded VPN firewall**-provides enhanced stateful packet inspection and filtering+provides advanced VPN services with Triple DES (3DES) and Advanced Encryption Standard (AES) encryption at high performance and low latency, Web content filtering, and application prioritization and enhancement

Additional information

- Green initiative support-provides support for RoHS and WEEE regulations
- **OPEX savings**⁻a common operating system simplifies and streamlines deployment, management, and training, thereby cutting costs as well as reducing the chance for human errors associated with having to manage multiple operating systems across different platforms and network layers
- Faster time to market-engineering efficiencies allow new and custom features to be brought rapidly to the market with better initial and ongoing stability

Warranty and support

- 1-year warranty-with advance replacement and delivery (available in most countries)
- Electronic and telephone support-limited electronic and telephone support is available from HP+to reach our support centers, refer
 to-www.hp.com/networking/contact-support+for details on the duration of support provided with your product purchase, refer to
 www.hp.com/networking/warrantysummary
- **Software releases**-to find software for your product, refer to-www.hp.com/networking/support+for details on the software releases available with your product purchase, refer to-www.hp.com/networking/warrantysummary



Technical Specifications

HP MSR900 Router (JF812A)

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

4 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

Physical characteristics Dimensions 6.3(d) x 9.06(w) x 1.74(h) in. (16 x 23 x 4.42 cm)

> Weight 3.97 lb. (1.8 kg)

Memory and processor Processor RISC @ 266 MHz, 256 MB DDR SDRAM, 256 MB flash

Throughput Performance up to 70 Kpps (64-byte packets)

> Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

> Operating relative 5% to 90%

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 90%

Electrical characteristics Maximum heat

dissipation

20 BTU/hr (21.1 kJ/hr)

DC Voltage 12 V Maximum power rating 15 W

Notes Maximum power rating and maximum heat dissipation are the worst-case

> theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

Safety UL 60950-17CAN/CSA 22.2 No. 60950-17AS/NZS 609507EN 60825-1 Safety of Laser Products-Part 17EN

60825-2 Safety of Laser Products-Part 2+IEC 60950-1+CAN/CSA-C22.2 No. 60950-1-03+EN 60950-1/A11+

FDA 21 CFR Subchapter J

Emissions ANSI C63.47EN 55022 Class B7ICES-003 Class B7ETSI EN 300 386 V1.3.37EN 61000-4-27EN 61000-4-37EN

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8-2001+AS/NZS CISPR22 Class B+FCC (CFR 47, Part 15) Class B

Telecom FCC part 68

Management IMC - Intelligent Management Center*command-line interface*Web browser*SNMP Manager*Telnet*

RMON1+FTP+IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY865E)

> 3-year, 4-hour onsite, 13x5 coverage for hardware (UY866E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UY869E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY872E)

3-year, 24x7 SW phone support, software updates (UY875E)





1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR648E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UY867E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UY870E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY873E)

4-year, 24x7 SW phone support, software updates (UY876E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UY868E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY871E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY874E)

5-year, 24x7 SW phone support, software updates (UY877E)

3 Yr 6 hr Call-to-Repair Onsite (UY878E) 4 Yr 6 hr Call-to-Repair Onsite (UY879E) 5 Yr 6 hr Call-to-Repair Onsite (UY880E)

1-year, 4-hour onsite, 24x7 coverage for hardware (HR649E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR652E)

1-year, 24x7 software phone support, software updates (HR651E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR650E)

Refer to the HP website at-www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP MSR920 Router (JF813A)

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

8 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

Physical characteristics Dimensions 6.3(d) x 9.06(w) x 1.74(h) in. (16 x 23 x 4.42 cm)

> Weight 3.97 lb. (1.8 kg)

Memory and processor Processor RISC @ 333 MHz, 256 MB DDR SDRAM, 256 MB flash

Performance Throughput up to 100 Kpps (64-byte packets)

> Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

> Operating relative 5% to 90%

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

5% to 90%

Electrical characteristics Maximum heat

relative humidity

29 BTU/hr (30.6 kJ/hr)

dissipation

DC Voltage 12 V





Maximum power rating 15 W

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

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8-2001+AS/NZS CISPR22 Class B+FCC (CFR 47, Part 15) Class B

Telecom FCC part 68

Management IMC - Intelligent Management Center+command-line interface+Web browser+

SNMP Manager+Telnet+RMON1+FTP+IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY881E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UY882E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UY885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY888E)

3-year, 24x7 SW phone support, software updates (UY891E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR653E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR654E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UY883E)

4-year, 4-hour onsite, 24x7 coverage for hardware (UY886E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY889E)

4-year, 24x7 SW phone support, software updates (UY892E)

5-year, 4-hour onsite, 13x5 coverage for hardware (UY884E)

5-year, 4-hour onsite, 24x7 coverage for hardware (UY887E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY890E)

5-year, 24x7 SW phone support, software updates (UY893E)

3 Yr 6 hr Call-to-Repair Onsite (UY894E)

4 Yr 6 hr Call-to-Repair Onsite (UY895E)

5 Yr 6 hr Call-to-Repair Onsite (UY896E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR657E)

1-year, 24x7 software phone support, software updates (HR656E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates

(HR655E)

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP MSR900-W Router (JF814A)



Technical Specifications

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)+

Duplex-half or full

4 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

AP characteristics Radios Single (b/g)

Radio operation modes Client access
AP operation modes Autonomous
Wi-Fi Alliance b/g Wi-Fi Certified

Certification*

* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.

Physical characteristics Dimensions $6.3(d) \times 9.06(w) \times 1.74(h)$ in. $(16 \times 23 \times 4.42 \text{ cm})$

Weight 3.97 lb. (1.8 kg)

Memory and processor Processor RISC @ 266 MHz, 256 MB DDR SDRAM, 256 MB flash

Performance Throughput up to 70 Kpps (64-byte packets)

Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative 5% to 90%

humidity

Nonoperating/Storage

temperature

Nonoperating/Storage 5% to 90%

relative humidity

Electrical characteristics Maximum heat

imum heat 20 BTU/hr (21.1 kJ/hr)

dissipation

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

Safety UL 60950-17-CAN/CSA 22.2 No. 60950-17-AS/NZS 609507-EN 60825-1 Safety of Laser Products-Part 17-EN

-40°F to 158°F (-40°C to 70°C)

60825-2 Safety of Laser Products-Part 2+IEC 60950-1+CAN/CSA-C22.2 No. 60950-1-03+EN 60950-1/A11+

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Telecom FCC part 68



Technical Specifications

Management IMC - Intelligent Management Center+command-line interface+Web browser+SNMP Manager+Telnet+

RMON1+FTP+IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY865E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UY866E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UY869E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY872E)

3-year, 24x7 SW phone support, software updates (UY875E)

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4-year, 4-hour onsite, 13x5 coverage for hardware (UY867E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UY870E)

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5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY874E)

5-year, 24x7 SW phone support, software updates (UY877E)

3 Yr 6 hr Call-to-Repair Onsite (UY878E) 4 Yr 6 hr Call-to-Repair Onsite (UY879E) 5 Yr 6 hr Call-to-Repair Onsite (UY880E)

1-year, 4-hour onsite, 24x7 coverage for hardware (HR649E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR652E)
1-year, 24x7 software phone support, software updates (HR651E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates

(HR650E)

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HP MSR920-W Router (JF815A)

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)+

Duplex-half or full

8 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

AP characteristics Radios Single (b/g)

Radio operation modes Client access
AP operation modes Autonomous
Wi-Fi Alliance b/g Wi-Fi Certified

Certification*

* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.



Technical Specifications

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Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

5% to 90%

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 90%

Electrical characteristics Maximum heat

dissipation

29 BTU/hr (30.6 kJ/hr)

DC Voltage 12 V

Maximum power rating 15 W

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

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8-2001+AS/NZS CISPR22 Class B+FCC (CFR 47, Part 15) Class B

Telecom FCC part 68

Management IMC - Intelligent Management Center-command-line interface-tweb browser-tSNMP Manager-tTelnet-t

RMON1+FTP+IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY881E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UY882E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UY885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY888E)

3-year, 24x7 SW phone support, software updates (UY891E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR653E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR654E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UY883E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UY886E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY889E)

4-year, 24x7 SW phone support, software updates (UY892E)





5-year, 4-hour onsite, 13x5 coverage for hardware (UY884E)

5-year, 4-hour onsite, 24x7 coverage for hardware (UY887E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY890E)

5-year, 24x7 SW phone support, software updates (UY893E)

3 Yr 6 hr Call-to-Repair Onsite (UY894E) 4 Yr 6 hr Call-to-Repair Onsite (UY895E) 5 Yr 6 hr Call-to-Repair Onsite (UY896E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR657E)

1-year, 24x7 software phone support, software updates (HR656E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR655E)

Refer to the HP website at-www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP MSR900-W Router (NA) (JG207A)

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

4 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

AP characteristics Radios Single (b/q)

> **Radio operation modes** Client access **AP operation modes** Autonomous Wi-Fi Alliance b/g Wi-Fi Certified

Certification*

* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.

Physical characteristics Dimensions 6.3(d) x 9.06(w) x 1.74(h) in. (16 x 23 x 4.42 cm)

> Weight 3.97 lb. (1.8 kg)

Memory and processor Processor RISC @ 266 MHz, 256 MB DDR SDRAM, 256 MB flash

Performance Throughput up to 70 Kpps (64-byte packets)

> Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

> Operating relative 5% to 90%

humidity

Nonoperating/Storage -40°F to 158°F (-40°C to 70°C)

5% to 90%

temperature

Nonoperating/Storage

relative humidity



Technical Specifications

Electrical characteristics Maximum heat 20 BTU/hr (21.1 kJ/hr)

dissipation

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

Safety UL 60950-17CAN/CSA 22.2 No. 60950-17AS/NZS 609507EN 60825-1 Safety of Laser Products-Part 17EN

60825-2 Safety of Laser Products-Part 2+IEC 60950-1+CAN/CSA-C22.2 No. 60950-1-03+EN 60950-1/A11+

FDA 21 CFR Subchapter J

Emissions ANSI C63.47EN 55022 Class B7ICES-003 Class B7ETSI EN 300 386 V1.3.37EN 61000-4-27EN 61000-4-37EN

61000-4-47EN 61000-4-57EN 61000-4-67EN 61000-3-2720067EN 61000-3-371995 +A172001+A2720057EMC Directive 2004/108/EC7EN 5502471998+ A172001 + A2720037EN 61000-4-11720047EN 61000-4-

8-2001+AS/NZS CISPR22 Class B+FCC (CFR 47, Part 15) Class B

Telecom FCC part 68

Management IMC - Intelligent Management Center+command-line interface+Web browser+SNMP Manager+Telnet+

RMON17FTP7IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY865E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UY866E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UY869E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY872E)

3-year, 24x7 SW phone support, software updates (UY875E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UY867E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UY870E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY873E)

4-year, 24x7 SW phone support, software updates (UY876E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UY868E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY871E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY874E)

5-year, 24x7 SW phone support, software updates (UY877E)

3 Yr 6 hr Call-to-Repair Onsite (UY878E) 4 Yr 6 hr Call-to-Repair Onsite (UY879E) 5 Yr 6 hr Call-to-Repair Onsite (UY880E)

Refer to the HP website at-www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP MSR920-W Router (NA) (JG208A)



Technical Specifications

Ports 2 RJ-45 autosensing 10/100 WAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

8 RJ-45 autosensing 10/100 LAN ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)7

Duplex-half or full

AP characteristics **Radios** Single (b/g)

> **Radio operation modes** Client access **AP operation modes** Autonomous Wi-Fi Alliance b/g Wi-Fi Certified

Certification*

* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.

Physical characteristics Dimensions 6.3(d) x 9.06(w) x 1.74(h) in. (16 x 23 x 4.42 cm)

> Weight 3.97 lb. (1.8 kg)

Memory and processor Processor RISC @ 333 MHz, 256 MB DDR SDRAM, 256 MB flash

Performance Throughput up to 100 Kpps (64-byte packets)

> Routing table size 10000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

> Operating relative 5% to 90%

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 90%

Electrical characteristics Maximum heat

dissipation

29 BTU/hr (30.6 kJ/hr)

DC Voltage 12 V Maximum power rating 15 W

Notes Maximum power rating and maximum heat dissipation are the worst-case

> theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

Safety UL 60950-17CAN/CSA 22.2 No. 60950-17AS/NZS 609507EN 60825-1 Safety of Laser Products-Part 17EN

60825-2 Safety of Laser Products-Part 2+IEC 60950-1+CAN/CSA-C22.2 No. 60950-1-03+EN 60950-1/A11+

FDA 21 CFR Subchapter J

Emissions ANSI C63.47EN 55022 Class B7ICES-003 Class B7ETSI EN 300 386 V1.3.37EN 61000-4-27EN 61000-4-37EN

> 61000-4-47EN 61000-4-57EN 61000-4-67EN 61000-3-2720067EN 61000-3-371995 +A172001+A2720057 EMC Directive 2004/108/EC7EN 5502471998+ A172001 + A2720037EN 61000-4-11720047EN 61000-4-

8-2001+AS/NZS CISPR22 Class B+FCC (CFR 47, Part 15) Class B

Telecom FCC part 68



Technical Specifications

Management IMC - Intelligent Management Center-Frommand-line interface-Web browser-FSNMP Manager-FTelnet-F

RMON1+FTP+IEEE 802.3 Ethernet MIB

Services 3-year, parts only, global next-day advance exchange (UY881E)

> 3-year, 4-hour onsite, 13x5 coverage for hardware (UY882E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UY885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UY888E)

3-year, 24x7 SW phone support, software updates (UY891E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UY883E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UY886E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY889E)

4-year, 24x7 SW phone support, software updates (UY892E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UY884E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UY887E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UY890E)

5-year, 24x7 SW phone support, software updates (UY893E)

3 Yr 6 hr Call-to-Repair Onsite (UY894E) 4 Yr 6 hr Call-to-Repair Onsite (UY895E) 5 Yr 6 hr Call-to-Repair Onsite (UY896E)

Refer to the HP website at-www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols

series)

BGP

(applies to all products in RFC 1163 Border Gateway Protocol (BGP) RFC 1267 Border Gateway Protocol 3 (BGP-3) RFC 1657 Definitions of Managed Objects for

BGPv4

RFC 1771 BGPv4

RFC 1772 Application of the BGP

RFC 1773 Experience with the BGP-4 Protocol

RFC 1774 BGP-4 Protocol Analysis RFC 1965 BGP4 confederations

RFC 1997 BGP Communities Attribute

RFC 1998 PPP Gandalf FZA Compression Protocol

RFC 2385 BGP Session Protection via TCP MD5

RFC 2439 BGP Route Flap Damping

Denial of service protection

CPU DoS Protection Rate Limiting by ACLs

Device management

RFC 1305 NTPv3

RFC 1945 Hypertext Transfer Protocol -- HTTP/1.0 RFC 3392 Support BGP capabilities advertisement

RFC 3036 LDP Specification

RFC 3046 DHCP Relay Agent Information Option

RFC 3065 Support AS confederation

RFC 3137 OSPF Stub Router Advertisement RFC 3209 RSVP-TE Extensions to RSVP for LSP

Tunnels

RFC 3210 Applicability Statement for Extensions to

RSVP for LSP-Tunnels

RFC 3212 Constraint-Based LSP setup using LDP

(CR-LDP)

RFC 3214 LSP Modification Using CR-LDP

RFC 3215 LDP State Machine

RFC 3268 Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS) RFC 3277 IS-IS Transient Blackhole Avoidance

RFC 3279 Algorithms and Identifiers for the Internet

X.509 Public Key Infrastructure Certificate and

Certificate Revocation List (CRL) Profile

RFC 3280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL)

Profile





RFC 2271 FrameWork RFC 3526 More Modular Exponential (MODP) RFC 2452 MIB for TCP6 Diffie-Hellman groups for Internet Key Exchange (IKE)

RFC 2454 MIB for UDP6

RFC 3564 Requirements for Support of **General protocols** Differentiated Services-aware MPLS Traffic

IEEE 802.1D MAC Bridges Engineering

IEEE 802.1p Priority RFC 3602 The AES-CBC Cipher Algorithm and Its

IEEE 802.10 VLANs Use with IPsec

IEEE 802.1s Multiple Spanning Trees RFC 3706 A Traffic-Based Method of Detecting

IEEE 802.1w Rapid Reconfiguration of Spanning Dead Internet Key Exchange (IKE) Peers

Tree RFC 3784 ISIS TE support

RFC 768 UDP RFC 3786 Extending the Number of IS-IS LSP

RFC 783 TFTP Protocol (revision 2) Fragments Beyond the 256 Limit **RFC 791 IP** RFC 3847 Restart signaling for IS-IS

RFC 792 ICMP **IP** multicast RFC 793 TCP RFC 826 ARP RFC 1112 IGMP **RFC 854 TELNET** RFC 2236 IGMPv2

RFC 855 Telnet Option Specification RFC 2283 Multiprotocol Extensions for BGP-4

RFC 856 TELNET RFC 2362 PIM Sparse Mode

RFC 858 Telnet Suppress Go Ahead Option RFC 2934 Protocol Independent Multicast MIB for

IPv6

RFC 894 IP over Ethernet IPv4

RFC 925 Multi-LAN Address Resolution RFC 3376 IGMPv3

RFC 950 Internet Standard Subnetting Procedure

RFC 959 File Transfer Protocol (FTP)

RFC 1006 ISO transport services on top of the TCP⁻ RFC 1981 IPv6 Path MTU Discovery

Version 3 RFC 2080 RIPng for IPv6

RFC 1027 Proxy ARP RFC 2292 Advanced Sockets API for IPv6 RFC 1034 Domain Concepts and Facilities RFC 2373 IPv6 Addressing Architecture

RFC 1035 Domain Implementation and RFC 2460 IPv6 Specification

Specification RFC 2461 IPv6 Neighbor Discovery

RFC 1042 IP Datagrams RFC 2462 IPv6 Stateless Address Auto-configuration

RFC 1058 RIPv1 RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet RFC 1071 Computing the Internet Checksum

RFC 1091 Telnet Terminal-Type Option Networks

RFC 1122 Host Requirements RFC 2472 IP Version 6 over PPP

RFC 2473 Generic Packet Tunneling in IPv6 RFC 1141 Incremental updating of the Internet

checksum RFC 2529 Transmission of IPv6 Packets over IPv4

RFC 1142 OSI IS-IS Intra-domain Routing Protocol RFC 2545 Use of MP-BGP-4 for IPv6

RFC 2553 Basic Socket Interface Extensions for IPv6 RFC 1144 Compressing TCP/IP headers for

low-speed serial links RFC 2740 OSPFv3 for IPv6

RFC 1195 OSI ISIS for IP and Dual Environments RFC 3056 Connection of IPv6 Domains via IPv4

RFC 1256 ICMP Router Discovery Protocol (IRDP)

RFC 1293 Inverse Address Resolution Protocol RFC 3513 IPv6 Addressing Architecture

RFC 1315 Management Information Base for Frame RFC 3596 DNS Extension for IPv6



Technical Specifications

5	
Relay DTEs	
RFC 1332 The PPP Internet Protocol Control	MIBs
Protocol	RFC 1213 MIB II
(IPCP)	RFC 1229 Interface MIB Extensions
RFC 1333 PPP Link Quality Monitoring	RFC 1286 Bridge MIB
RFC 1334 PPP Authentication Protocols (PA	P) RFC 1493 Bridge MIB
RFC 1349 Type of Service	RFC 1573 SNMP MIB II
RFC 1350 TFTP Protocol (revision 2)	RFC 1724 RIPv2 MIB
RFC 1377 The PPP OSI Network Layer Contro	ol RFC 1757 Remote Network Monitoring MIB
Protocol (OSINLCP)	RFC 1850 OSPFv2 MIB
RFC 1381 SNMP MIB Extension for X.25 LAPE	RFC 2011 SNMPv2 MIB for IP
RFC 1471 The Definitions of Managed Object	s for RFC 2012 SNMPv2 MIB for TCP
the Link Control Protocol of the Point-to-Po	oint RFC 2013 SNMPv2 MIB for UDP
Protocol	RFC 2233 Interfaces MIB
RFC 1472 The Definitions of Managed Object	s for RFC 2454 IPV6-UDP-MIB
the Security Protocols of the Point-to-Point	t ProtocoRFC 2465 IPv6 MIB
RFC 1490 Multiprotocol Interconnect over F	rame RFC 2466 ICMPv6 MIB
Relay	RFC 2618 RADIUS Client MIB
RFC 1519 CIDR	RFC 2620 RADIUS Accounting MIB
RFC 1534 DHCP/BOOTP Interoperation	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 1542 Clarifications and Extensions for t	he RFC 2737 Entity MIB (Version 2)
Bootstrap Protocol	RFC 2863 The Interfaces Group MIB
RFC 1552 The PPP Internetworking Packet ExchangeRFC 2933 IGMP MIB	
Control Protocol (IPXCP)	RFC 3813 MPLS LSR MIB
RFC 1577 Classical IP and ARP over ATM	
RFC 1613 Cisco Systems X.25 over TCP (XOT	r) Network management
RFC 1624 Incremental Internet Checksum	IEEE 802.1D (STP)
RFC 1631 NAT	RFC 1155 Structure of Management Information
RFC 1638 PPP Bridging Control Protocol (BC	P) RFC 1157 SNMPv1
RFC 1661 The Point-to-Point Protocol (PPP)	RFC 1905 SNMPv2 Protocol Operations
RFC 1662 PPP in HDLC-like Framing	RFC 2272 SNMPv3 Management Protocol
RFC 1695 Definitions of Managed Objects for	r ATM RFC 2273 SNMPv3 Applications
Management Version 8.0 using SMIv2	RFC 2274 USM for SNMPv3
RFC 1701 Generic Routing Encapsulation	RFC 2275 VACM for SNMPv3
RFC 1702 Generic Routing Encapsulation ov	er IPv4 RFC 2575 SNMPv3 View-based Access Control
networks	Model (VACM)
RFC 1721 RIP-2 Analysis	RFC 3164 BSD syslog Protocol
RFC 1722 RIP-2 Applicability	
RFC 1723 RIP v2	OSPF
RFC 1795 Data Link Switching-Switch-to-Sv	witch RFC 1245 OSPF protocol analysis
Protocol AIW DLSw RIG-DLSw Closed Pages	, DLSw RFC 1246 Experience with OSPF
Standard Version 1	RFC 1587 OSPF NSSA
RFC 1812 IPv4 Routing	RFC 1765 OSPF Database Overflow
RFC 1829 The ESP DES-CBC Transform	RFC 1850 OSPFv2 Management Information Base
RFC 1877 PPP Internet Protocol Control Pro	
RFC 1877 PPP IIILEMIEL PROLOCOL COMMON PRO	tocol (MIB), traps





Extensions for Name Server Addresses

RFC 1944 Benchmarking Methodology for Network RFC 2370 OSPF Opaque LSA Option

Interconnect Devices

RFC 1973 PPP in Frame Relay

RFC 1974 PPP Stac LZS Compression Protocol

RFC 1990 The PPP Multilink Protocol (MP)

RFC 1994 PPP Challenge Handshake Authentication RFC 2474 DS Field in the IPv4 and IPv6 Headers

Protocol (CHAP)

RFC 2091 Trigger RIP

RFC 2131 DHCP

RFC 2132 DHCP Options and BOOTP Vendor

RFC 2166 APPN Implementer's Workshop Closed

Pages Document DLSw v2.0 Enhancements

RFC 2205 Resource ReSerVation Protocol (RSVP) -

Version 1 Functional Specification

RFC 2280 Routing Policy Specification Language

(RPSL)

RFC 2284 EAP over LAN

RFC 2338 VRRP

RFC 2364 PPP Over AAL5

RFC 2374 An Aggregatable Global Unicast

Address Format

RFC 2451 The ESP CBC-Mode Cipher Algorithms

RFC 2453 RIPv2

RFC 2510 Internet X.509 Public Key Infrastructure

Certificate Management Protocols

RFC 2511 Internet X.509 Certificate Request

Message Format

RFC 2516 A Method for Transmitting PPP Over

Ethernet (PPPoE)

RFC 2644 Directed Broadcast Control

RFC 2661 L2TP

RFC 2663 NAT Terminology and Considerations

RFC 2684 Multiprotocol Encapsulation over ATM

Adaptation Layer 5

RFC 2694 DNS extensions to Network Address

Translators (DNS₇ALG)

RFC 2702 Requirements for Traffic Engineering

Over MPLS

RFC 2747 RSVP Cryptographic Authentication

RFC 2763 Dynamic Name-to-System ID mapping

RFC 2765 Stateless IP/ICMP Translation Algorithm

(SIIT)

RFC 2328 OSPFv2

RFC 3101 OSPF NSSA

QoS/CoS

IEEE 802.1P (CoS)

RFC 2475 DiffServ Architecture

RFC 2597 DiffServ Assured Forwarding (AF)

RFC 2598 DiffServ Expedited Forwarding (EF)

RFC 3168 The Addition of Explicit Congestion

Notification (ECN) to IP

Security

IEEE 802.1X Port Based Network Access Control

RFC 1321 The MD5 Message-Digest Algorithm

RFC 2082 RIP-2 MD5 Authentication

RFC 2104 Keyed-Hashing for Message

Authentication

RFC 2138 RADIUS Authentication

RFC 2209 RSVP-Message Processing

RFC 2246 Transport Layer Security (TLS)

RFC 2716 PPP EAP TLS Authentication Protocol

RFC 2865 RADIUS Authentication

RFC 2866 RADIUS Accounting

RFC 3567 Intermediate System (IS) to IS

Cryptographic Authentication

VPN

RFC 2403 - HMAC-MD5-96

RFC 2404 - HMAC-SHA1-96

RFC 2405 - DES-CBC Cipher algorithm

RFC 2547 BGP/MPLS VPNs

RFC 2796 BGP Route Reflection - An Alternative to

Full Mesh IBGP

RFC 2842 Capabilities Advertisement with BGP-4

RFC 2858 Multiprotocol Extensions for BGP-4

RFC 2918 Route Refresh Capability for BGP-4

RFC 3107 Carrying Label Information in BGP-4

IPsec

RFC 1828 IP Authentication using Keyed MD5

RFC 2401 IP Security Architecture

RFC 2402 IP Authentication Header

RFC 2406 IP Encapsulating Security Payload



Technical Specifications

RFC 2766 Network Address Translation - Protocol RFC 2407 - Domain of interpretation

Translation (NAT-PT)

RFC 2784 Generic Routing Encapsulation (GRE)

RFC 2787 Definitions of Managed Objects for VRRP

RFC 2961 RSVP Refresh Overhead Reduction

Extensions

RFC 2966 Domain-wide Prefix Distribution with

Two-Level IS-IS

RFC 2973 IS-IS Mesh Groups

RFC 2993 Architectural Implications of NAT

RFC 3022 Traditional IP Network Address

Translator (Traditional NAT)

RFC 3027 Protocol Complications with the IP

Network Address Translator

RFC 3031 Multiprotocol Label Switching

Architecture

RFC 2410 - The NULL Encryption Algorithm and its

use with IPsec

RFC 2411 IP Security Document Roadmap

RFC 2412 - OAKLEY

RFC 2865 - Remote Authentication Dial In User

Service (RADIUS)

IKEv1

RFC 2865 - Remote Authentication Dial In User

Service (RADIUS)

RFC 3748 - Extensible Authentication Protocol (EAP)

To learn more, visit=www.hp.com/networking

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