Overview

Models

HP MSR Small Survivable Branch Communication MIM Module pwrd by Microsoft Lync	JG587A
HP MSR Medium Survivable Branch Communication MIM Module pwrd by Microsoft Lync	JG588A
HP MSR Large Survivable Branch Communication FIC Module pwrd by Microsoft Lync	JG589A

Key features

- Industry-leading Microsoft® Lync branch survivability solutions
- Rich set of UC features
- Microsoft Unified Communication Open Interoperability Program certified gateways
- Compact form factors provide branch router solution using HP MSR30 and MSR50 Series Routers

Product overview

The HP MSR Survivable Branch Communication Module (SBM) powered by Microsoft Lync Server enables real-time communications, even when the WAN is unavailable, enabling you to remain productive, make calls, and sustain communications locally in your branch office. The HP MSR SBM combines a Microsoft Lync Survivable Branch Appliance with HP software to deliver a rich set of unified communications (UC) features such as instant messaging, voice, video, and desktop sharing. The HP MSR SBM provides toll bypass and least-cost routing over a public switched telephone network (PSTN) to reduce costs and improve user productivity.

Microsoft Lync Survivable Branch Appliance software is pre-installed in the HP MSR SBM to simplify deployments. The modules are used with HP MSR30 and MSR50 Series Routers and Microsoft Unified Communication Open Interoperability Program certified gateways. Dial plan and endpoint configurations are automatically downloaded from Microsoft Lync and Active Directory servers in the data center.

The modules offer a single and multicore, multi-threaded processing architecture that combines storage, Gigabit Ethernet, and USB interfaces, which reduces your network's physical footprint, power consumption, cabling, and management, thereby lowering the network's cost and complexity.

Features and benefits

AllianceOne integration

- **Powered by Microsoft Lync Survivable Branch Appliance**
  the HP MSR SBM integrates Microsoft Lync Survivable Branch Appliance software and is domain joined to the Microsoft environment; the solution provides users within the branch with the ability to communicate and collaborate in the event that the data center communications servers cannot be reached; all peer-to-peer services within the branch remain operational, including instant messaging, video, desktop sharing, and voice

Branch office consolidation

- **Total solution in one device**
  by utilizing the MSR30 and MSR50 series routers, customers can obtain voice survivability, routing, switching, WAN access, wireless LAN, PoE, 3G, security, and virtualization services from one device

Low TCO

- **No additional Microsoft Lync Survivable Branch Appliance license needed**

Overview

the HP MSR SBM comes preloaded with fully licensed Microsoft Lync Survivable Branch Appliance

- **Flexible router implementation**
  various models of HP MSR30 and MSR50 Series Router chassis support HP MSR SBM
- **Low operating costs**
  these modules are part of a converged branch-in-a-box solution that enables enterprises and SMB organizations to lower costs and complexity with a single converged all-in-one solution that is easy to manage and deploy

Application highlights

- **Survivable solution**
  during loss of intra-branch connectivity to the data center, IM, video, desktop sharing, and voice calls are directly routed over the LAN; inter-branch/intra-company calls and intercompany voice calls are automatically routed over the PSTN; during WAN outages; voicemails are hair pinned to the auto attendant on the data center's Exchange UM server; when the SBM is offline, endpoint clients automatically register to the main Lync server in the data center
- **Microsoft Unified Communication Open Interoperability Program certified media gateway support**
  the HP MSR30 and MSR50 Series Routers allow additional Microsoft Unified Communication Open Interoperability Program certified media gateway modules that can be installed in the MIM, FIC, or SIC slots in many popular combinations.
- **Support for toll bypass and least-cost routing**
  during normal operation, HP MSR SBM supports toll bypass and least-cost call routing; every PSTN gateway in the enterprise is available for placing outbound calls along the least-expensive path

Product architecture

- **Separated interface**
  supports two network ports on the module (one internal and one external); one GbE wire-speed port connects internally to the router backplane; one RJ-45 port on the front panel of the HP MSR SBM connects to the module only and can be manually connected to a router port for network connectivity; unified CLI can be used to manage the HP MSR SBM for gateway configuration

Connectivity

- **Supports integrated media gateways**
  the MSR series routers scale based on user demand and support up to 240 concurrent PSTN calls
- **IP Telephony interface**
  supports SIP voice communications and FXS and FXO 1:1 binding for all ports; supports analog signaling such as Loop Ground Start (LGS) used by FXS and FXO as well as E&M; digital signaling is provided for ISDN PRI, Digital LGS, Digital E&M and R2/China No.1; supports T.38 (Fax over IP), Q-Sig, and CAS-R2; the MSR series routers support FXO, FXS, T1, E1, and BRI in various densities
- **Gigabit Ethernet interface**
  provides a low-latency network connection for out-of-band management functionality and can be manually connected to a router or switch Ethernet port
- **Multiple LAN, WAN, and wireless interface**
  the MSR series routers provide a traditional link with E3, T3, E1, T1, ADSL, ADSL2, ADSL2+, G.SHDSL, OC-3, POS, ATM, and ISDN/AM backup; deliver high-density Ethernet access with WAN Fast Ethernet/Gigabit Ethernet, LAN Fast Ethernet, and PoE; offer mobility access with IEEE 802.11b/g/n Wi-Fi and 3G
- **Voice CODEC support**
- **Coding/Decoding on the PSTN side**
  the MSR series routers support PCMA (64 Kbps lossless format) and PCMU (64 Kbps lossless format)
- **Coding/Decoding on the IP side**
  the MSR series routers support G.711A and G.711ì (64 Kbps as the PCMA/PCMU), G.729r8 and G.729A (8 Kbps), G.723r53 and G.723r63 (5.3 Kbps/6.3 Kbps), G.726r16, G.726r24, G.726r32, and G.726r40 (16/24/32/40 Kbps)

Overview

Management

- **Management interface control**
  enables or disables each of the following interfaces depending on security preferences: console port, telnet port, or reset button
- **Industry-standard CLI with a hierarchical structure**
  reduces training time and expenses, and increases productivity in multivendor installations
- **Easy-to-use management interface**
  the HP MSR SBM is shipped with a management tool that provides a dashboard with a single view of operations and a single place for configuration modifications; the tool also provides flow-based, simplified installation that reduces deployment errors with confirmed correct operations; the tool validates media gateway settings and can test connections between the Lync server and the media gateway

Performance

- **Intel® single- and dual-core architecture**
  provides single-core architecture in the 2 GB MIM module with two threads and provides Intel dual-core i7 processor support in 4 GB MIM and 8 GB FIC modules with four threads each

Resiliency and high availability

- **Hot-swappable FIC modules**
  facilitate the replacement of HP MSR SBM FIC modules, as the module will power up with default settings
- **Redundant power supplies**
  the MSR series routers provide power supply redundancy

Manageability

- **Troubleshooting**
  ingress and egress port monitoring enable network problem solving
- **Console port**
  a Microsoft Windows® console is accessible through the command-line interface

Warranty and support

- **1-year warranty**
  with advance replacement and 10-calendar-day delivery (available in most countries)
- **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

Additional information

- **Microsoft Lync support**
  provides Microsoft Lync support and updates only to customers who have purchased contractual services; for more information go to HP networking services (http://www8.hp.com/us/en/business-services/it-services.html?compURI=1078006)

Technical Specifications

HP MSR Small Survivable Branch Communication MIM Module pwrd by Microsoft Lync (JG587A)		
Connectivity	RJ-45	
Physical characteristics	**Dimensions**	5.91(w) x 8.3(d) x 1.57(h) in (15 x 21.07 x 4 cm) (1U height)
	Weight	1.76 lb (0.8 kg), Fully loaded product only without packaging
Environment	**Operating temperature**	32°F to 113°F (0°C to 45°C); Important: See note for maximum temperature constraints in unique situations.
	Operating relative humidity	5% to 90% @ 113°F (45°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 90% @ 158°F (70°C), noncondensing
	Altitude	up to 16,404 ft (5 km)
Notes	The module is intended for use as a Microsoft Lync SBM only. It does not support a general application environment. • The chassis operating temperature specifications are revised when the SSB SBM MIM module is installed. • If SSB SBM MIM modules are installed on the right side of the chassis, then the temperature specification for the chassis is 113°F (45°C). • For all SSB SBM MIM modules, the operating temperature specification is set in the range of 32°F–113°F (0°C–45°C). • A maximum of two SSB SBM MIM modules can be installed in any MSR30-40 or MSR30-60 series routers. A single SSB SBM MIM module can be installed on the MSR30-16 and the MSR30-20 series routers. • If the number of installed SSB SBM MIM modules exceeds these quantities, the excess module will not boot. • The SSB SBM MIM module supports up to a 2 GB memory footprint and up to 300 users.	
Services	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.	

Technical Specifications

HP MSR Medium Survivable Branch Communication MIM Module pwrd by Microsoft Lync (JG588A)		
Connectivity	RJ-45	
Physical characteristics	**Dimensions**	5.91(w) x 8.3(d) x 1.57(h) in (15 x 21.07 x 4 cm) (1U height)
	Weight	2.65 lb (.8 kg), Fully loaded product only, no packaging included
Environment	**Operating temperature**	32°F to 113°F (0°C to 45°C); Important: See note for maximum temperature constraints in unique situations.
	Operating relative humidity	5% to 90% @ 113°F (45°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 90% @ 158°F (70°C), noncondensing
	Altitude	up to 16,404 ft (5 km)
Notes	The module is intended for use as a Microsoft Lync SBM only. HP does not recommend that it be used to support a general application environment. • The chassis operating temperature specifications are revised when the MSB SBM MIM module is installed. • If MSB SBM MIM modules are installed on the right side of the chassis, then the temperature specification for the chassis is 113°F (45°C). • For all MSB SBM MIM modules, the operating temperature specification is set in the range of 32°F–113°F (0°C–45°C). • A maximum of two MSB SBM MIM modules can be installed in any MSR30-40 or MSR30-60 router. A single MSB SBM MIM module can be installed on the MSR30-16 and the MSR30-20 router. • If the number of installed MSB SBM MIM modules exceeds these quantities, the excess module will not boot. • The MSB SBM MIM module supports up to a 4 GB memory footprint and up to 1,000 users.	
Services	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.	

Technical Specifications

HP MSR Large Survivable Branch Communication FIC Module pwrd by Microsoft Lync (JG589A)

Connectivity	RJ-45	
Physical characteristics	**Dimensions**	7.82(w) x 9.86(d) x 1.57(h) in (19.86 x 25.05 x 4.0 cm) (1U height)
	Weight	2.65 lb (.8 kg), Fully loaded product only, no packaging included
Environment	**Operating temperature**	32°F to 113°F (0°C to 45°C); Important: See note for maximum temperature constraints in unique situations.
	Operating relative humidity	5% to 90% @ 113°F (45°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 90% @ 158°F (70°C), noncondensing
	Altitude	1.76 lb (0.8 kg), Fully loaded product only, no packaging included
Notes	The module is intended for use as a Microsoft Lync SBM only. HP does not recommend that it be used to support a general application environment. • The chassis operating temperature specifications are revised when the LSB SBM FIC module is installed. • If LSB SBM FIC modules are installed on the right side of the chassis, then the temperature specification for the chassis is 113°F (45°C). • For all LSB SBM FIC modules, the operating temperature specification is set in the range of 32°F–113°F (0°C–45°C). • Two LSB SBM MIM modules can be installed in MSR50-40 or MSR50-60 series routers with one power supply. A maximum of four LSB SBM MIM modules can be installed in MSR50-40 or MSR50-60 series routers with two power supplies. • If the number of installed LSB SBM MIM modules exceeds these quantities, the excess module will not boot. • The LSB SBM MIM module supports up to a 8 GB memory footprint and up to 1,000 users.	
Services	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.	

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