Overview

Models

HP Survivable Branch Communication zl Module powered by Microsoft Lync   J9485A

Key features

- Powered by Microsoft Lync
- Integrated media gateway supports T1/E1, FXS/FXO
- Survivable solution
- Toll bypass and least-cost call routing support
- Powerful management interface

Product overview

HP Survivable Branch Communication zl Module (SBM) powered by Microsoft® Lync provides survivable branch services, such as external phone call capability, while sustaining internal peer-to-peer communications when the data center cannot be reached. SBM combines Microsoft Lync survivable branch application and software from HP, including a public switched telephone network (PSTN) to Voice over Internet Protocol (VoIP) gateway, a graphical user interface (GUI), management interfaces, and an application programming interface (API) to the switch itself, all of which are integrated on a module that fits in the chassis of HP E8200 zl and E5400 zl Switch series products.

Features and benefits

Application highlights

- **Powered by Microsoft Lync**: SBM is a key component of a complete Microsoft Lync Server 2010 infrastructure, integrates Microsoft Lync software, and can be domain joined to the Microsoft environment; the solution provides branch users with the ability to communicate and collaborate in the event the data center communications servers cannot be reached; all services that are peer to peer within the branch remain operational, including instant messaging, video, desktop sharing, and voice
- **Integrated media gateway support**: SBM allows additional media gateway modules that can be installed in the PCIe slots; support for 1, 2, and 4 E1/T1/J1, 4-port FXS/FXO, as well as 2-port FXS/2-port FXO combination is available; the modules are equipped with world-class DSP hardware to achieve carrier-grade echo cancellation and voice quality enhancement functions for telephone systems
- **Survivable solution**: during loss of connectivity to data center (for intra-branch) IM, video, desktop sharing, and voice calls are directly routed over the LAN; inter-branch/intra-company calls are automatically routed over the PSTN; inter-company voice calls are routed over the PSTN; for voice mail, SBM automatically "hairpins" the call to auto attendant on a data center's Exchange UM server; when SBM is offline, endpoint clients automatically register to the main Lync server in the data center
- **Toll bypass and least-cost routing support**: during normal operation, 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
- **Powerful management interface**: SBM is shipped with a powerful management tool that provides a dashboard with a single view of operation and single place for configuration modifications; the tool also provides flow-based, simplified installation, thus reducing deployment errors with confirmed correct operation; the tool validates media gateway settings and can test connections between Lync servers and the media gateway

Management

- **Front-panel RJ-45 management port**: provides 10/100/1000 port for direct access to Microsoft Lync user interface and configuration

Connectivity

Overview

- **Two 10-GbE connections to the switch**: features two internal wire-speed 10 GbE ports to the switch backplane
- **USB port**: provides one external USB 2.0 port for application use; for example, external hard drives or other forms of mass storage
- **Integrated media gateway support**: scales based on user demand, supporting up to 120 concurrent PSTN calls per SBM

Performance

- **High-performance processor system**: Intel® Core™ 2 Duo Processor T9400 at 2.53 GHz, 4 MB cache provides a high-performance compute environment designed for a dual switch slot
- **Memory subsystems**: 4 GB of DDR3-1066 dual-channel memory enables fast application performance
- **Disk drive**: 250 GB SATA hard disk drive allows quick data read/writes to enhance application performance
- **Session capacity**: each SBM supports up to 1000 registered users or endpoints, with up to 120 simultaneous PSTN calls; internal VoIP-to-VoIP calls only require minimal SBM processing during call setup and do not impact the number of simultaneous PSTN calls

Resiliency and high availability

- **Redundant power supplies**: SBM has the same level of power supply redundancy as the switch in which it is installed

Ease of use

- **High integration**: Microsoft Lync with media gateway and remote management comes preinstalled on SBM to simplify deployments; dial plan and endpoint configurations are automatically downloaded from Microsoft Lync and Active Directory servers in the data center
- **Reduced complexity**: flow-based, simplified installation process with built-in testing facilities reduce deployment errors and help ensure correct operation
- **Locator LED** (module): allows users to set the locator LED on a specific module to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a specific module among other identical or similar modules; also provides status LED to view health of module
- **Simplified total solution**: involves fewer boxes, cabling, points of failure, and points of maintenance; reduced space and power requirements provide simplified and efficient total solution

Additional information

- **Microsoft Lync**: provides only to customers who have purchased contractual services; for more information, go to HP networking services (http://h10144.www1.hp.com/customercare/services/index.htm)

Warranty and support

- **Lifetime warranty**: for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)*
- **Warranty note**: Microsoft Lync warranty is 90-day media only
- **Electronic and telephone support**: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **Software releases**: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

*Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services zl Module, HP Threat Management Services zl Module, HP PCM+ Agent with AllianceONE Services zl Module, and HP E-MSM765 zl Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at: www.hp.com/networking/warranty.

Technical Specifications

HP Survivable Branch Communication zl Module powered by Microsoft Lync (J9485A)

Ports	1 USB 2.0	
Physical characteristics	Dimensions	9.75(d) x 8.13(w) x 3.5(h) in. (24.77 x 20.65 x 8.89 cm)
	Weight	4.5 lb. (2.04 kg)
Environment	Operating temperature	32°F to 122°F (0°C to 50°C); Important: See note for 50°C temperature spec rules
	Operating relative humidity	15% to 90% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	14°F to 149°F (-10°C to 65°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft. (3 km)
Notes	HP E5400 zl chassis operating temperature specifications when the services module is installed: 45°C when any services module is installed in the right side of the chassis, 50°C when all services modules are installed in the left side of the chassis.	
	Up to four services modules can be installed in an HP E5412 zl/E8212 zl Switch chassis simultaneously. Up to two services modules can be installed in an HP E5406 zl/E8206 zl Switch chassis simultaneously. When the services module is installed, the maximum relative humidity for the switch drops from 95% to 90%.	
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UY932E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware (UY933E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UY934E)	
	3-year, 24x7 SW phone support, software updates (UY935E)	
	3 Yr 6 hr Call-to-Repair Onsite (UY936E)	
	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.	

QuickSpecs

Accessories

HP Survivable Branch Communication zl Module powered by Microsoft Lync accessories	**License**	
	Sangoma 2-port T1/E1/J1 Telephony Card	J9488A
	Sangoma 4-port T1/E1/J1 Telephony Card	J9489A
	Sangoma 4-port FXO Telephony Card	J9516A
	Sangoma 4-port FXS Telephony Card	J9482A
	Sangoma 2-port FXO / 2-port FXS Telephony Card	J9518A
	Telephony modules	
	Sangoma 1-port T1/E1/J1 Telephony Card	J9487A

Accessory Product Details

NOTE: Details are not available for all accessories. The following specifications were available at the time of publication.

Sangoma 2-port T1/E1/J1 Telephony Card (J9488A)	Notes	The J9488A is a digital data and voice network card, not subject to TNV evaluation as an approved TELCO-provided DMARK device, providing that isolation from the TNV is utilized in the end-use application.
	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.

Sangoma 4-port T1/E1/J1 Telephony Card (J9489A)	Notes	The J9489A is a digital data and voice network card, not subject to TNV evaluation as an approved TELCO-provided DMARK device, providing that isolation from the TNV is utilized in the end-use application.
	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.

Sangoma 1-port T1/E1/J1 Telephony Card (J9487A)	Notes	The J9487A is a digital data and voice network card, not subject to TNV evaluation as an approved TELCO-provided DMARK device, providing that isolation from the TNV is utilized in the end-use application.
	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