

### Overview

## Models

HP VCX Connect Primary MIM Module	JE252A
HP VCX Connect Secondary MIM Module	JE253A
HP MSR 30-16 Router with VCX Connect Primary MIM, 4-port FXO and 2-port FXS Modules	JD025A
HP MSR 30-40 Router with VCX Connect Primary MIM, 8-port FXO and 4-port FXS Modules	JD026A
HP MSR 30-40 Router with VCX Connect Primary MIM, 8-port BRI-ST and 4-port FXS Modules	JD027A
HP MSR 30-40 Router with VCX Connect Primary MIM, T1, 4-port FXO and 4-port FXS Modules	JD028A
HP MSR 30-40 Router with VCX Connect Primary MIM, E1, 4-port BRI-ST and 4-port FXS Modules	JD029A

## Key features

- Economical VoIP bundles with enterprise WAN router
- Built-in phone, messaging, and softphone licenses
- Resiliency with optional redundant server
- Voice, video, IM collaboration, MS Lync interface
- Support up to 600 users with 6 servers

## Product overview

HP VCX Connect Unified Communications MIM on MSR series delivers an enterprise-class, full-featured VoIP phone system designed to meet the needs of rugged, collaborative small business work environments with up to 100 phone users. Designed to seamlessly integrate within HP A-MSR 30 series WAN routers, the VCX Connect MIM leverages MSR modularity to provide a true office-in-a-box solution with a comprehensive suite of WAN, LAN, security, and voice interfaces. The VCX Connect MIM's flexible, intuitive design and management help businesses replace legacy PBXs with SIP-based VoIP solutions that provide a full range of collaborative functionality—including Microsoft® OCS/Lync and Exchange UM connectivity, click-to-call, presence, and instant messaging. VCX Connect MIM solution bundles, which combine a VCX Connect MIM module, an A-MSR 30 series router, and various media gateway interfaces, are available to reduce expenses and increase network freedom and flexibility.

## Features and benefits

### Quality of Service (QoS)

- **Echo cancellation:** automatically adjusts and removes echo from a telephone call
- **Voice activity detection:** the proprietary algorithm is designed to reduce/filter background noise
- **Comfort noise generation:** provides low audible artificial background noise to improve VoIP communications
- **802.1p/Q VLAN tagging:** delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q

### Resiliency and high availability

- **Enhanced high availability:** backup VCX systems, whether co-located with the primary VCX or deployed in another office on the same network, provide geographic survivability and rapid failover for mission-critical communications
- **Optional redundant power supply:** provides seamless business continuity and data protection

### Configuration

- **Media gateway support:** streamlines migration to IP communications and provides PSTN connectivity with a full range of either integrated or standalone VoIP gateways
- **Scheduled backups:** System Administration Web interface provides the ability to schedule static and reoccurring full system



### Overview

backups

### Integration

- **Converged IP telephony and data:** seamlessly integrate the VCX Connect MIM (multifunction interface module) into an HP A-MSR 30 series Power over Ethernet (PoE) or non-PoE router to deliver enterprise-class routing and telephony functionality

### Investment protection

- **All-in-one solution:** decreases capital and operating expenses and increases network freedom and flexibility by integrating a comprehensive suite of available telephony, routing, switching, wireless and security interfaces and features—all in the same box
- **Analog phone support:** leverages existing investment in analog phones while implementing a full set of PBX features

### Ease of use

- **Built-in licensing:** VCX Connect MIM system ships with default licenses—VCX IP Telephony/IP Messaging Server license, 25 business phone licenses, 25 IP messaging seat licenses, 25 Desktop Communicator softphone licenses, 25 Convergence Client softphone licenses, and 4 analog/entry licenses
- **LDAP synchronization with Microsoft® Active Directory, IBM Lotus Domino, Linux OpenLDAP:** easily integrate, filter, and synchronize employee contact information, thereby simplifying administration and providing reliable connections based on the most current user information
- **Ease of deployment:** VCX Connect MIM's out-of-the-box first-time configuration provides simpler installations using a Web-based, wizard-like interface that walks you through the installation process
- **Easy to use:** GUI-driven central management and configuration
- **NEW Replication status:** System Administration Web interface displays the replication status of primary and secondary pairs

### Scalability

- **Supported devices:** let you pay as you grow up to 100 devices per platform and up to 600 devices in total via VCX global directory, which enables up to six VCX Connect MIM platforms to function as a single system

### Additional information

- **Optional mobility for telecommuters:** optional HP VCX IP Telecommuting series provides remote users with the full benefit of their corporate IP telephony systems without compromising security
- **Optional multimedia conference bridge:** when businesses require a dense conferencing system to reduce the overhead and cost of expensive third-party conferencing products, the HP VCX V7000 IP Conferencing series provides capabilities that include host and participant Web-based conference controls, instant and emergency conferences with automatic dial-out options, scheduled and meet-me restricted conferences (requires participant passcode), peer-to-peer and one-to-many conferences, and more
- **Optional network management:** uses the HP Intelligent Management Center (IMC) and Voice Services Manager (VSM) to configure, monitor, and enhance the performance of media servers, gateways, and endpoints; to monitor VoIP traffic; and to control voice network quality; enhancements for the IMC VSM include MOS scoring and packet loss notification MIB changes; the VCX license MIBs support IMC

### Product architecture

- **Multi-site architecture:** a highly flexible architecture eliminates the dependency on any single component for unprecedented resiliency and end-to-end survivability; allow you to use Web-based centralized administration, global directory, and global voicemail to seamlessly link VCX systems together to scale your IP-PBX network as your business grows
- **Standards-based IP-PBX:** supports standard PBX and advanced telephony and messaging features based on the IETF Session Initiation Protocol (SIP) standards; supports third-party SIP-based applications and devices



### Overview

- **Integrated server:** IP telephony and IP messaging modules run on Linux OS
- **Direct SIP integration with Microsoft OCS/Lync and Exchange UM:** VCX direct SIP integration with Microsoft OCS/Lync allows VCX phones/clients to call and have basic features with phones/clients connected to OCS/Lync; OCS/Lync has access to VCX IP-PBX phones, clients, and gateways; VCX supports direct SIP integration with Office Communication Server 2007, Office Communication Server 2007 R2, and Microsoft Lync Server 2010

### Technical features

- **Ad hoc conferencing:** VCX Connect MIM supports up to 30 sessions of ad hoc conferencing with a maximum of six parties per conference
- **Shared lines and extension status:** single-line and multi-line phone support and bridged extensions for executives and administrators

### User productivity

- **Unified communications:** increases employee collaboration through the audio, video, instant messaging, file sharing, and presence capabilities within the HP Desktop Communicator; extends the Microsoft environment with HP Desktop Communicator Outlook Edition add-on to enable click-to-call/conference via Microsoft Outlook, to capture and retrieve call notes with Microsoft Journal, and to perform desktop call recording; HP VCX is fully integrated with Lotus Sametime
- **Unified messaging:** consolidates users' voicemail, email, and faxes into a single inbox for flexible, location-independent retrieval and management; schedules appropriate times when messages are delivered; sends voicemails to individuals or groups using extensive and easy-to-maintain distribution lists; sets up find me/follow me services to conveniently manage one's own access to help ensure that important calls are not missed; auto-delivers incoming fax calls to email and sends faxes from email
- **Web user interface:** listen to and manage voicemail messages
- **Lotus Domino/Sametime 8.5 support:** Sametime 8.5 can be deployed using a Sametime System Console and new meeting server functionality; VCX provides two packages for Sametime 8.5; can be deployed on Sametime Community Server ("classic" to pre-8.5) or on Sametime Media Manager (for 8.5) using the system console

### Voice functionality

- **Hot desking:** mobile users can effortlessly traverse within the VCX system, log into another handset, and have all their desktop extension settings, including voicemail, at their fingertips
- **Call admission control:** fine-tune and throttle media traffic to prevent VoIP over-subscription—even down to a particular extension
- **Pin codes:** prevent unauthorized outbound dialing and/or manage and record telephony calls via forced account codes and customer account and billing codes; PIN code portability allows users to roam the VCX system and utilize their existing data
- **Hunt groups:** built-in call distribution provides agent log-in functionality; support for 3 selectable call routing algorithms
- **Automatic call distribution:** add-on economical call center application that includes 5 selectable routing algorithms, the ability to capture real-time statistics, and support for remote agents in various VCX locations
- **Simultaneous Ring provides mobility for VCX users:** Simultaneous Ring feature allows a user to configure their external phone (such as cell phone) to simultaneously ring with their desktop VCX IP phone; users can answer the call at any of the ringing endpoints; when a user at one of the ringing endpoints answers the call, the other ringing endpoint stops ringing; it allows a user to be reached at two different locations by ringing both locations at the same time
- **350x IP phone background/screen saver image restore :** VCX Web interface provides the ability to reset background/screen saver image to factory defaults on 350x IP phones; if an image is incorrect, VCX will display a notification to the administrator

### Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-day delivery (available in most countries)
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: [www.hp.com/networking/warranty](http://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](http://www.hp.com/networking/warranty) for details on the software releases provided and the period



## Overview

during which software releases are available for your product(s)



### Technical Specifications

#### HP VCX Connect Primary MIM Module (JE252A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 USB 2.0
<b>Physical characteristics</b>	<b>Dimensions</b> 8.27(d) x 5.91(w) x 1.57(h) in. (21 x 15 x 4 cm) (1U height) <b>Weight</b> 2.43 lb. (1.1 kg)
<b>Memory and processor</b>	<b>Module</b> Intel® Celeron® @ 600 MHz, 1 GB DDR SODIMM; storage: 1 60 GB HD
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot
<b>Environment</b>	<b>Operating temperature</b> 41°F to 104°F (5°C to 40°C) <b>Operating relative humidity</b> 10% to 80% <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways
<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.

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#### HP VCX Connect Secondary MIM Module (JE253A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 USB 2.0
<b>Physical characteristics</b>	<b>Dimensions</b> 8.27(d) x 5.91(w) x 1.57(h) in. (21 x 15 x 4 cm) <b>Weight</b> 2.43 lb. (1.1 kg)
<b>Memory and processor</b>	<b>Module</b> Intel® Celeron® @ 600 MHz, 1 GB DDR SODIMM; storage: 1 60 GB HD
<b>Mounting</b>	VCX Connect Secondary module slides into HP A-MSR 30 Series router MIM slot
<b>Environment</b>	<b>Operating temperature</b> 41°F to 104°F (5°C to 40°C) <b>Operating relative humidity</b> 10% to 80% <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways
<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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 30-16 Router with VCX Connect Primary MIM, 4-port FXO and 2-port FXS Modules (JD025A)

<b>Ports</b>	3 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 3 USB 2.0 4 RJ-11 FXO ports 2 RJ-11 FXS ports 1 Compact Flash port
<b>Physical characteristics</b>	<b>Dimensions</b> 17.39(d) x 17.4(w) x 1.74(h) in. (44.17 x 44.2 x 4.42 cm) (1U height) <b>Weight</b> 16.25 lb. (7.37 kg) including bundle components
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
<b>Environment</b>	<b>Operating temperature</b> 41°F to 104°F (5°C to 40°C) <b>Operating relative humidity</b> 10% to 80% <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50/60 Hz
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-16 integrated voice gateways options: <ul style="list-style-type: none"> <li>• Supports up to a maximum of twelve (12) analog voice ports</li> <li>• Supports up to a maximum of eight (8) ISDN voice ports</li> <li>• Supports up to a maximum of four (4) E1 or T1 digital voice spans</li> </ul> <p>Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-16 router with VCX Connect Primary MIM, 2-port FXO SIC (qty 2), and 2-port FXS SIC modules</p>
<b>Services</b>	3-year, parts only, global next-day advance exchange (UX150E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UX151E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX154E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UX157E) 3-year, 24x7 SW phone support, software updates (UX160E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UX152E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UX155E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX158E) 4-year, 24x7 SW phone support, software updates (UX161E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UX153E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UX156E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX159E) 5-year, 24x7 SW phone support, software updates (UX162E) 3 Yr 6 hr Call-to-Repair Onsite (UX163E) 4 Yr 6 hr Call-to-Repair Onsite (UX164E)



## Technical Specifications

5 Yr 6 hr Call-to-Repair Onsite (UX165E)

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### HP MSR 30-40 Router with VCX Connect Primary MIM, 8-port FXO and 4-port FXS Modules (JD026A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 4 USB 2.0 8 RJ-11 FXO ports 4 RJ-11 FXS ports 2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP 1 Compact Flash port
<b>Physical characteristics</b>	<b>Dimensions</b> 16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height) <b>Weight</b> 30.29 lb. (13.74 kg) including bundle components
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
<b>Environment</b>	<b>Operating temperature</b> 41°F to 104°F (5°C to 40°C) <b>Operating relative humidity</b> 10% to 80% <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50/60 Hz
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateways options: <ul style="list-style-type: none"><li>• Supports up to a maximum of twenty-four (24) analog voice ports</li><li>• Supports up to a maximum of sixteen (16) ISDN voice ports</li><li>• Supports up to a maximum of five (5) E1 or T1 digital voice spans</li></ul> Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 4-port FXO MIM (qty 2), and 4-port FXS MIM modules
<b>Services</b>	3-year, parts only, global next-day advance exchange (UX150E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UX151E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX154E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UX157E) 3-year, 24x7 SW phone support, software updates (UX160E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UX152E)



## Technical Specifications

- 4-year, 4-hour onsite, 24x7 coverage for hardware (UX155E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX158E)
- 4-year, 24x7 SW phone support, software updates (UX161E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UX153E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UX156E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX159E)
- 5-year, 24x7 SW phone support, software updates (UX162E)
- 3 Yr 6 hr Call-to-Repair Onsite (UX163E)
- 4 Yr 6 hr Call-to-Repair Onsite (UX164E)
- 5 Yr 6 hr Call-to-Repair Onsite (UX165E)

Refer to the HP website at: [www.hp.com/networking/services](http://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 MSR 30-40 Router with VCX Connect Primary MIM, 8-port BRI-ST and 4-port FXS Modules (JD027A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	
	4 USB 2.0	
	8 RJ-45 ISDN voice ports	
	4 RJ-11 FXS ports	
	2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	2 SFP	
	1 Compact Flash port	
<b>Physical characteristics</b>	<b>Dimensions</b>	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)
	<b>Weight</b>	30.34 lb. (13.76 kg) including bundle components
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)	
<b>Environment</b>	<b>Operating temperature</b>	41°F to 104°F (5°C to 40°C)
	<b>Operating relative humidity</b>	10% to 80%
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Voltage</b>	100-240 VAC
	<b>Frequency</b>	50/60 Hz
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options: <ul style="list-style-type: none"> <li>● Supports up to a maximum of twenty-four (24) analog voice ports</li> <li>● Supports up to a maximum of sixteen (16) ISDN voice ports</li> <li>● Supports up to a maximum of five (5) E1 or T1 digital voice spans</li> </ul>	

Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways





## Technical Specifications

Bundle includes MSR 30-40 router with VCX Connect MIM Primary, 4-port BRI-ST MIM (qty 2), and 4-port FXS MIM modules

### Services

- 3-year, parts only, global next-day advance exchange (UX150E)
- 3-year, 4-hour onsite, 13x5 coverage for hardware (UX151E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UX154E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UX157E)
- 3-year, 24x7 SW phone support, software updates (UX160E)
- 4-year, 4-hour onsite, 13x5 coverage for hardware (UX152E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware (UX155E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX158E)
- 4-year, 24x7 SW phone support, software updates (UX161E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UX153E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UX156E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX159E)
- 5-year, 24x7 SW phone support, software updates (UX162E)
- 3 Yr 6 hr Call-to-Repair Onsite (UX163E)
- 4 Yr 6 hr Call-to-Repair Onsite (UX164E)
- 5 Yr 6 hr Call-to-Repair Onsite (UX165E)

Refer to the HP website at: [www.hp.com/networking/services](http://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 MSR 30-40 Router with VCX Connect Primary MIM, T1, 4-port FXO and 4-port FXS Modules (JD028A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	
	4 USB 2.0	
	1 RJ-45 T1 port	
	4 RJ-11 FXO ports	
	4 RJ-11 FXS ports	
	2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	2 SFP	
	1 Compact Flash port	
<b>Physical characteristics</b>	<b>Dimensions</b>	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)
	<b>Weight</b>	30.23 lb. (13.71 kg) including bundle components
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)	
<b>Environment</b>	<b>Operating temperature</b>	41°F to 104°F (5°C to 40°C)
	<b>Operating relative humidity</b>	10% to 80%
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Voltage</b>	100-240 VAC
	<b>Frequency</b>	50/60 Hz



## Technical Specifications

<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS																																
<b>Notes</b>	<p>Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options:</p> <ul style="list-style-type: none"><li>• Supports up to a maximum of twenty-four (24) analog voice ports</li><li>• Supports up to a maximum of sixteen (16) ISDN voice ports</li><li>• Supports up to a maximum of five (5) E1 or T1 digital voice spans</li></ul> <p>Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 1-port T1 MIM, 24-Channel VPM, 4-port FXO MIM, and 4-port FXS MIM modules</p>																																
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<b>Features</b>	<table><tr><td><b>SYSTEM</b></td><td>Mute</td></tr><tr><td>Ad hoc conferencing</td><td>Paging (analog external paging system)</td></tr><tr><td>Centralized management</td><td>Paging (group - zone)</td></tr><tr><td>Call detail records</td><td>Paging (phone-to-phone), send beep with calling number</td></tr><tr><td>Converged application based architecture</td><td>Paging (SIP external paging system)</td></tr><tr><td>Emergency services</td><td>Phone lock/unlock</td></tr><tr><td>End-to-end SIP signaling</td><td>Privacy (block select monitor/barge-in)</td></tr><tr><td>Global directory</td><td>Privacy (calling number suppression)</td></tr><tr><td>Global voice mail</td><td>Serial calling (transfer with callback)</td></tr><tr><td>IP telephony</td><td>Silent monitor/barge-in</td></tr><tr><td>IP unified messaging</td><td>Simultaneous Ringing</td></tr><tr><td>Linux operating system with additional security</td><td>Speed dial (personal)</td></tr><tr><td>SIP back-to-back user Agent</td><td>Speed dial (system)</td></tr><tr><td>Standards-based connectivity</td><td>Transfer to voicemail (direct)</td></tr><tr><td>System redundancy</td><td>Voicemail access</td></tr><tr><td>Web services SDK</td><td>Warmline (warm ring down circuits)</td></tr></table> <b>RESILIENCY</b>	<b>SYSTEM</b>	Mute	Ad hoc conferencing	Paging (analog external paging system)	Centralized management	Paging (group - zone)	Call detail records	Paging (phone-to-phone), send beep with calling number	Converged application based architecture	Paging (SIP external paging system)	Emergency services	Phone lock/unlock	End-to-end SIP signaling	Privacy (block select monitor/barge-in)	Global directory	Privacy (calling number suppression)	Global voice mail	Serial calling (transfer with callback)	IP telephony	Silent monitor/barge-in	IP unified messaging	Simultaneous Ringing	Linux operating system with additional security	Speed dial (personal)	SIP back-to-back user Agent	Speed dial (system)	Standards-based connectivity	Transfer to voicemail (direct)	System redundancy	Voicemail access	Web services SDK	Warmline (warm ring down circuits)
<b>SYSTEM</b>	Mute																																
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## Technical Specifications

- Redundancy, IP telephony
- Redundancy, IP messaging
- Redundancy, IP phones and media gateways
- Redundancy, optional RAID
- Redundancy, optional power supply

### SYSTEM ADMINISTRATION

- Add VCX licenses
- Administration access control
- Administration secure access
- Audit trails and logging enhancements
- Command Line Interface
- Configuration back-up and restore
- CPU, memory, I/O statistics
- First-time configuration
- First-time data import
- Importing data
- Installed component versions
- Multiple administrators
- Multiple language support
- Online administrator help
- Password support, administrator and system access
- Provisioning; bulk moves, adds, changes
- Remove previous software versions
- Resetting a VCX server
- Reset to defaults
- Root directory access
- Searches
- Site configuration data
- Software upgrades and rollbacks
- Switch software versions
- System information
- User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
- VCX service licensing
- View VCX licensing data
- Virtual numbers

### QUALITY OF SERVICE

- DSCP tagging
- Dynamic jitter buffer
- G.711 audio codec
- G.729ab audio codec
- Packet-loss rate
- Pay-load length
- QoS: 802.1p tagging (Prioritization)
- QoS: 802.1Q tagging (VLAN)
- Video codec
- Video resolution

### IP TELEPHONY ROUTING

- Calendar bands
- Call admission control
- Call blocking
- Daytime bands
- Dialing prefixes
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DNIS (Dialed Number Identification Service)
- E.164 numbering plan
- External directory access
- Holidays
- NANP support
- Network abbreviated dialing
- Number translations
- Outdial patterns
- Patterns
- Prioritization of trunks/routes
- Private line service
- Requestors
- Routes
- Route (plans and plan wizard)
- Routing (alternate)
- Routing (blacklist)
- Routing (call coverage)
- Routing (first available)
- Routing (global directory)
- Routing (IP to PSTN)
- Routing (IP to IP)
- Routing (least cost)
- Routing (PSTN to IP)
- Routing (source based)
- Routing (VPN numbering plan)
- Routing (white list)
- Trusted end points
- Weekday bands

### IP MESSAGING ARCHITECTURAL

- G.711
- G.729
- Global voicemail central server
- Redundancy (intelligent mirroring)

### IP MESSAGING

- Message annotation
- Message append
- Message auto-delivery
- Message auto playback
- Message broadcast
- Message delete
- Message delete retrieval
- Message delivery report



## Technical Specifications

Wide-band audio codec

### SECURITY

Network security policies  
Operating system security  
Secure access  
Security: Locking MAC addresses to switches  
User authentication methods

### SYSTEM MANAGEMENT

Alarm notification  
Audio performance reporting (local)  
Auto discovery and management of IP devices  
Intelligent Management Center Voice Service  
Manager: centralized management  
Maintenance, graceful shutdown of services  
Operating system updates  
Quality of service end of call reporting  
SNMP MIB access  
SNMP traps  
SNMP v1, v3  
System back-ups

### REPORTING

Call detail records (reporting)  
Call detail records (structure)

### IP TELEPHONY CALLING

Anonymous all  
Anonymous next  
Anonymous call reject  
Automatic call distribution (ACD)  
ACD groups (call coverage)  
ACD groups (calling groups)  
ACD groups (CDR reporting)  
ACD groups (circular)  
ACD groups (feature interactions)  
ACD groups (least-call count)  
ACD groups (linear)  
ACD groups (login/logout)  
ACD groups (malicious call trace)  
ACD groups (message-waiting indication)  
ACD groups (most idle agent)  
ACD groups (multisite)  
ACD groups (real-time statistics)  
ACD groups (view ACD group status)  
Automatic line selection (Multiple system  
appearance)  
Bridged line appearance  
Bridge line appearance (MWI)  
Bridge line appearance (shared hold)  
Busy lamp field

Message delivery to non-subscribers  
Message deposit  
Message deposit treatment options  
Message folders  
Message forward  
Message notification  
Message notification options  
Message priority  
Message record options  
Message reply  
Message retrieval  
Message review  
Message review options  
Message review playback controls  
Message save  
Message schedule delivery  
Message send  
Message send treatment options  
Mailbox login

### GREETING

Default system greeting  
Personal busy greeting  
Personal extended absence greeting  
Personal normal greeting  
Personal scheduled greetings

### DISTRIBUTION LIST

Administrator distribution lists  
Personal distribution lists  
System distribution lists

### DIRECTORY

Directory search  
Directory search (dial-by-name)

### USER PRODUCTIVITY

Auto attendants  
Bulletin board  
Call back  
Call monitor  
Family mailbox  
Force password change  
Listen and manage voicemail messages from Web  
user interface  
Mailbox alias  
Mailbox auto login  
Mailbox full alert  
Mailboxes for announcements  
Mailboxes for forms (Q&A)  
Mailboxes for information  
Mailboxes for surveys



## Technical Specifications

- Call conference (drop)
- Call conference (six-way calling)
- Call conference (three-way calling)
- Call coverage
- Call drop
- Call duration display
- Call forward all (universal)
- Call forward busy
- Call forward no answer
- Call forward out-of-coverage
- Call forward programmable
- Call forward reminder
- Call forward remote
- Call history (missed/answered/placed logs)
- Call history display sort
- Call hold
- Call hold reminder
- Call park/retrieve
- Call park (button mapping)
- Call park (fallback)
- Call pick-up (directed)
- Call pick-up (group)
- Call restrictions (black list)
- Call restrictions (blocking inbound)
- Call restrictions (blocking outbound)
- Call restrictions (call screening)
- Call restrictions (forward to trunk)
- Call restrictions (toll screening)
- Call restrictions (transfer to trunk)
- Call restrictions (white list)
- Call return
- Call transfer (attended)
- Call transfer (fallback on transfer failure)
- Call transfer (unattended)
- Call transfer (restrictions)
- Call waiting
- Caller ID (called party)
- Caller ID (calling party number)
- Caller ID (calling party name)
- Caller ID (privacy)
- Camp on busy (automatic call back)
- Class of service override
- Customer account and billing codes
- Delayed or no ringing
- Directory (local user)
- Directory (global user)
- Distinctive ringing, ring patterns (different call types)
- Distinctive ringing, selective ringing (ident-a-call)
- Do not disturb
- DTMF dialing
- Feature codes
- Feature access codes

- Mailboxes for system bulletins/broadcasts
- Message-waiting indication
- Music-on-hold
- Outline help
- Personal address book
- Personal auto-attendant
- Privacy
- Prompt bypass
- Set-up assistant tutorial
- Shortcut keys
- User password change
- User provisioning through TUI
- User provisioning through Web
- Virtual calling card
- Zero out

### FIND ME/FOLLOW ME

- Find me/follow me
- Find me/follow me call intercept

### FAX MAIL

- Electronic fax sending
- Fax auto-delivery to email
- Fax auto-delivery to fax machine
- Fax delivery to fax machine
- Fax message deposit
- Fax message retrieval
- Never-busy fax

### EMAIL INTEGRATION

- Client integration
- Email auto delivery
- Email integration
- Email synchronization
- Fax attachment in email (.tif or .pdf formats)
- Unified inbox for Domino on Windows
- Voicemail POP3/IMAP4 client integration

### IP MESSAGING ADMINISTRATION

- Administration of all parameters through X-terminal interface
- Class of service administration
- Company/division administration
- Export mailbox/COS
- Import mailbox/COS
- IMAP SSLv3 support
- IP messaging Web portal
- Mailbox administration
- Mailbox on-the-fly
- Mailbox un-login
- Multiple administration
- Multiple language support



## Technical Specifications

Forced account codes	Multiple permission levels
Forward to mail	Pager templates
Hands-free support	Send-user groups
Hotline (hot ring down circuits)	Support for multi-language voicemail
Hunt groups	Telephone user interface (native)
Hunt groups (call coverage)	Telephone user interface (traditional)
Hunt groups (calling group)	Time zones
Hunt groups (circular)	Upload audio files via Web interface
Hunt groups (feature interactions)	VIPIM support
Hunt groups (linear)	
Hunt groups (login/logout)	<b>IP MESSAGING MANAGEMENT</b>
Hunt groups (malicious call trace)	System alarms
Hunt groups (message-waiting indication)	System backup
Hunt groups (multisite)	System restoration
Hunt groups (view hunt group status)	System status
Last number redial	
Malicious call trace	<b>LANGUAGE SUPPORT</b>
Message-waiting indication (MWI), audio	Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)
Message-waiting indication (MWI), visual	
Missed call indicator	
Mobility (multisite hot desking)	
Mobility (single-region hot desking)	
Music on hold	

### HP MSR 30-40 Router with VCX Connect Primary MIM, E1, 4-port BRI-ST and 4-port FXS Modules (JD029A)

<b>Ports</b>	1 RJ-45 autosensing 10/100 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full
	4 USB 2.0
	1 E1 port
	4 RJ-45 ISDN voice ports
	4 RJ-11 FXS ports
	2 RJ-45 autosensing 100/1000 ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 100BASE-TX: half or full; 1000BASE-T: full only
	2 SFP
	1 Compact Flash port
<b>Physical characteristics</b>	<b>Dimensions</b> 16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)
	<b>Weight</b> 30.23 lb. (13.71 kg) including bundle components
<b>Mounting</b>	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
<b>Environment</b>	<b>Operating temperature</b> 41°F to 104°F (5°C to 40°C)
	<b>Operating relative humidity</b> 10% to 80%
	<b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC
	<b>Frequency</b> 50/60 Hz



## Technical Specifications

<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	
<b>Notes</b>	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options: <ul style="list-style-type: none"><li>• Supports up to a maximum of twenty-four (24) analog voice ports</li><li>• Supports up to a maximum of sixteen (16) ISDN voice ports</li><li>• Supports up to a maximum of five (5) E1 or T1 digital voice spans</li></ul>	
	Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 1-port E1 MIM, 32-Channel VPM, 4-port BRI-ST MIM, and 4-port FXS MIM modules	
<b>Services</b>	3-year, parts only, global next-day advance exchange (UX150E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UX151E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX154E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UX157E) 3-year, 24x7 SW phone support, software updates (UX160E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UX152E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UX155E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX158E) 4-year, 24x7 SW phone support, software updates (UX161E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UX153E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UX156E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX159E) 5-year, 24x7 SW phone support, software updates (UX162E) 3 Yr 6 hr Call-to-Repair Onsite (UX163E) 4 Yr 6 hr Call-to-Repair Onsite (UX164E) 5 Yr 6 hr Call-to-Repair Onsite (UX165E)	
	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.	
<b>Features</b>	<b>SYSTEM</b> Ad hoc conferencing Centralized management Call detail records Converged application based architecture Emergency services End-to-end SIP signaling Global directory Global voice mail IP telephony IP unified messaging Linux operating system with additional security SIP back-to-back user Agent Standards-based connectivity System redundancy Web services SDK Direct SIP integration with Microsoft Lync and Exchange UM	Paging (analog external paging system) Paging (group - zone) Paging (phone-to-phone), send beep with calling number Paging (SIP external paging system) Phone lock/unlock Privacy (block select monitor/charge-in) Privacy (calling number suppression) Serial calling (transfer with callback) Silent monitor/charge-in - Simultaneous ringing allows for user mobility by ringing desk phone and cell phone Speed dial (personal) Speed dial (system) Transfer to voicemail (direct) Voicemail access Warmline (warm ring down circuits) ACD Agent licenses are assigned dynamically



### Technical Specifications

#### RESILIENCY

- Redundancy, IP telephony
- Redundancy, IP messaging
- Redundancy, IP phones and media gateways
- Redundancy, optional RAID
- Redundancy, optional power supply

#### SYSTEM ADMINISTRATION

- Add VCX licenses
- Administration access control
- Administration secure access
- Audit trails and logging enhancements
- Command Line Interface
- Configuration back-up and restore
- CPU, memory, I/O statistics
- First-time configuration
- First-time data import
- Importing data
- Installed component versions
- Multiple administrators
- Multiple language support
- Online administrator help
- Password support, administrator and system access
- Provisioning; bulk moves, adds, changes
- Remove previous software versions
- Resetting a VCX server
- Reset to defaults
- Root directory access
- Searches
- Site configuration data
- Software upgrades and rollbacks
- Switch software versions
- System information
- User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
- VCX service licensing
- View VCX licensing data
- Virtual numbers
- Extensions and mailboxes can start with "0"
- Selectively delete Future Delivery messages
- Scheduled VCX backups
- 350x IP Phone Background/Screen saver Image reset to factory defaults via web

#### QUALITY OF SERVICE

- DSCP tagging
- Dynamic jitter buffer
- G.711 audio codec

ACD Agents can be automatically logged in

#### IP TELEPHONY ROUTING

- Calendar bands
- Call admission control
- Call blocking
- Daytime bands
- Dialing prefixes
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DNIS (Dialed Number Identification Service)
- E.164 numbering plan
- External directory access
- Holidays
- NANP support
- Network abbreviated dialing
- Number translations
- Outdial patterns
- Patterns
- Prioritization of trunks/routes
- Private line service
- Routes
- Route (plans and plan wizard)
- Routing (alternate)
- Routing (blacklist)
- Routing (call coverage)
- Routing (first available)
- Routing (global directory)
- Routing (IP to PSTN)
- Routing (IP to IP)
- Routing (least cost)
- Routing (PSTN to IP)
- Routing (source based)
- Routing (VPN numbering plan)
- Routing (white list)
- Trusted end points
- Weekday bands
- Extensions and mailboxes can start with "0"

#### IP MESSAGING ARCHITECTURAL

- G.711
- G.729
- Global voicemail central server
- Redundancy (intelligent mirroring)

#### IP MESSAGING

- Message annotation
- Message append
- Message auto-delivery
- Message auto playback
- Message broadcast
- Message delete





## Technical Specifications

G.729ab audio codec  
Packet-loss rate  
Pay-load length  
QoS: 802.1p tagging (Prioritization)  
QoS: 802.1Q tagging (VLAN)  
Video codec  
Video resolution  
Wide-band audio codec

### SECURITY

Network security policies  
Operating system security  
Secure access  
Security: Locking MAC addresses to switches  
User authentication methods

### SYSTEM MANAGEMENT

Alarm notification  
Audio performance reporting (local)  
Auto discovery and management of IP devices  
Intelligent Management Center Voice Service Manager: centralized management  
Maintenance, graceful shutdown of services  
Operating system updates  
Quality of service end of call reporting  
SNMP MIB access  
SNMP traps  
SNMP v1, v3  
System back-ups  
Scheduled VCX backups  
QoS MIB and license MIB enhancements for IMC VSM

### REPORTING

Call detail records (reporting)  
Call detail records (structure)

### IP TELEPHONY CALLING

Anonymous all  
Anonymous next  
Anonymous call reject  
Automatic call distribution (ACD)  
ACD groups (call coverage)  
ACD groups (calling groups)  
ACD groups (CDR reporting)  
ACD groups (circular)  
ACD groups (feature interactions)  
ACD groups (least-call count)  
ACD groups (linear)  
ACD groups (login/logout)  
ACD groups (malicious call trace)  
ACD groups (message-waiting indication)

Message delete retrieval  
Message delivery report  
Message delivery to non-subscribers  
Message deposit  
Message deposit treatment options  
Message folders  
Message forward  
Message notification  
Message notification options  
Message priority  
Message record options  
Message reply  
Message retrieval  
Message review  
Message review options  
Message review playback controls  
Message save  
Message schedule delivery  
Message send  
Message send treatment options  
Mailbox login

### GREETING

Default system greeting  
Personal busy greeting  
Personal extended absence greeting  
Personal normal greeting  
Personal scheduled greetings

### DISTRIBUTION LIST

Administrator distribution lists  
Personal distribution lists  
System distribution lists

### DIRECTORY

Directory search  
Directory search (dial-by-name)

### USER PRODUCTIVITY

Auto attendants  
Bulletin board  
Call back  
Call monitor  
Family mailbox  
Force password change  
Listen and manage voicemail messages from Web user interface  
Mailbox alias  
Mailbox auto login  
Mailbox full alert  
Mailboxes for announcements  
Mailboxes for forms (Q&A)



## Technical Specifications

- ACD groups (most idle agent)
- ACD groups (multisite)
- ACD groups (real-time statistics)
- ACD groups (view ACD group status)
- Automatic line selection (Multiple system appearance)
- Bridged line appearance
- Bridge line appearance (MWI)
- Bridge line appearance (shared hold)
- Busy lamp field
- Call conference (drop)
- Call conference (six-way calling)
- Call conference (three-way calling)
- Call coverage
- Call drop
- Call duration display
- Call forward all (universal)
- Call forward busy
- Call forward no answer
- Call forward out-of-coverage
- Call forward programmable
- Call forward reminder
- Call forward remote
- Call history (missed/answered/placed logs)
- Call history display sort
- Call hold
- Call hold reminder
- Call park/retrieve
- Call park (button mapping)
- Call park (fallback)
- Call pick-up (directed)
- Call pick-up (group)
- Call restrictions (black list)
- Call restrictions (blocking inbound)
- Call restrictions (blocking outbound)
- Call restrictions (call screening)
- Call restrictions (forward to trunk)
- Call restrictions (toll screening)
- Call restrictions (transfer to trunk)
- Call restrictions (white list)
- Call return
- Call transfer (attended)
- Call transfer (fallback on transfer failure)
- Call transfer (unattended)
- Call transfer (restrictions)
- Call waiting
- Caller ID (called party)
- Caller ID (calling party number)
- Caller ID (calling party name)
- Caller ID (privacy)
- Camp on busy (automatic call back)
- Class of service override

- Mailboxes for information
- Mailboxes for surveys
- Mailboxes for system bulletins/broadcasts
- Message-waiting indication
- Music-on-hold
- Outline help
- Personal address book
- Personal auto-attendant
- Privacy
- Prompt bypass
- Set-up assistant tutorial
- Shortcut keys
- User password change
- User provisioning through TUI
- User provisioning through Web
- Virtual calling card
- Zero out

### FIND ME/FOLLOW ME

- Find me/follow me
- Find me/follow me call intercept

### FAX MAIL

- Electronic fax sending
- Fax auto-delivery to email
- Fax auto-delivery to fax machine
- Fax delivery to fax machine
- Fax message deposit
- Fax message retrieval
- Never-busy fax

### EMAIL INTEGRATION

- Client integration
- Email auto delivery
- Email integration
- Email synchronization
- Fax attachment in email (.tif or .pdf formats)
- Unified inbox for Domino on Windows
- Voicemail POP3/IMAP4 client integration
- Integration with Microsoft Exchange Unified Messaging

### IP MESSAGING ADMINISTRATION

- Administration of all parameters through X-terminal interface
- Class of service administration
- Company/division administration
- Export mailbox/COS
- Import mailbox/COS
- IMAP SSLv3 support
- IP messaging Web portal
- Mailbox administration



## Technical Specifications

Customer account and billing codes	Mailbox on-the-fly
Delayed or no ringing	Mailbox un-login
Directory (local user)	Multiple administration
Directory (global user)	Multiple language support
Distinctive ringing, ring patterns (different call types)	Multiple permission levels
Distinctive ringing, selective ringing (ident-a-call)	Pager templates
Do not disturb	Send-user groups
DTMF dialing	Support for multi-language voicemail
Feature codes	Telephone user interface (native)
Feature access codes	Telephone user interface (traditional)
Forced account codes	Time zones
Forward to mail	Upload audio files via Web interface
Hands-free support	VPM support
Hotline (hot ring down circuits)	
Hunt groups	<b>IP MESSAGING MANAGEMENT</b>
Hunt groups (call coverage)	System alarms
Hunt groups (calling group)	System backup
Hunt groups (circular)	System restoration
Hunt groups (feature interactions)	System status
Hunt groups (linear)	Selective deletion of messages via web
Hunt groups (login/logout)	Voice mail full return receipt support
Hunt groups (malicious call trace)	
Hunt groups (message-waiting indication)	<b>LANGUAGE SUPPORT</b>
Hunt groups (multisite)	Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)
Hunt groups (view hunt group status)	
Last number redial	
Malicious call trace	
Message-waiting indication (MWI), audio	
Message-waiting indication (MWI), visual	
Missed call indicator	
Mobility (multisite hot desking)	
Mobility (single-region hot desking)	
Music on hold	
Mute	



### Accessories

#### HP VCX Connect Unified Cables

Communications MIM on MSR Series accessories	HP X260 E1 BNC 75 ohm 3m Router Cable	JD175A
	HP X260 E1 RJ45 3m Router Cable	JD509A
	HP X260 E1 RJ45 BNC 75-120 ohm Conversion Router Cable	JD511A
	HP X260 E1 BNC 20m Router Cable	JD514A
	HP X260 E1 BNC 75 ohm 40m Router Cable	JD516A
	HP X260 E1 RJ45 20m Router Cable	JD517A
	HP X260 T1 Router Cable	JD518A

#### Power Supply

	HP A-RPS800 Redundant Power System	JD183A
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#### License

	HP VCX Business IP Phone License E-LTU	JE427BAE
	HP VCX Basic IP Phone License E-LTU	JE426BAE
	HP VCX Third Party IP Phone License E-LTU	JE444BAE
	HP VCX Business IP Phone License 50 Bundle E-LTU	JE332BAE
	HP VCX Basic IP Phone License 50 Bundle E-LTU	JE329BAE
	HP VCX Business IP Phone License 250 Bundle E-LTU	JE331BAE
	HP VCX Basic IP Phone License 250 Bundle E-LTU	JE328BAE
	HP VCX Entry/Analog Phone License E-LTU	JE425BAE
	HP VCX IP Messaging Seat License E-LTU	JE301BAE
	HP VCX IP Messaging Seat License 50 Bundle E-LTU	JC515BAE
	HP VCX IP Messaging Seat License 250 Bundle E-LTU	JC514BAE
	HP VCX Desktop Communicator Standalone Soft Phone License E-LTU	JE435BAE
	HP VCX Desktop Communicator Outlook Edition Standalone Soft Phone License E-LTU	JE436BAE
	HP VCX Desktop Communicator to Outlook Edition Upgrade Soft Phone License E-LTU	JE437BAE
	HP VCX Desktop Communicator Soft Phone License 50 Bundle E-LTU	JE334BAE
	HP VCX Desktop Communicator Outlook Edition Soft Phone License 50 Bundle E-LTU	JE336BAE
	HP VCX Desktop Communicator Soft Phone License 250 Bundle E-LTU	JE333BAE
	HP VCX Desktop Communicator Outlook Edition Soft Phone License 250 Bundle E-LTU	JE335BAE
	HP VCX Convergence Center Client Standalone License E-LTU	JE434BAE
	HP VCX ACD Agent License E-LTU	JE422BAE
	HP VCX ACD 5 Agent License E-LTU	JE424BAE
	HP VCX ACD 10 Agent License E-LTU	JE423BAE

#### Routers

	HP A-MSR30-16 Router	JF233A
	HP A-MSR30-16 PoE Router	JF234A
	HP A-MSR30-20 Router	JF284A
	HP A-MSR30-20 PoE Router	JF802A
	HP A-MSR30-40 Router	JF229A
	HP A-MSR30-40 PoE Router	JF803A
	HP A-MSR30-60 Router	JF230A
	HP A-MSR30-60 PoE Router	JF804A

#### Router Modules



### Accessories

HP A-MSR 24-Channel Voice Processing Module	JD599A
HP A-MSR 32-Channel Voice Processing Module	JD598A
HP A-MSR Voice Co-processing Module	JD610A
HP A-MSR 1-port FXO SIC Module	JD559A
HP A-MSR 2-port FXO SIC Module	JD558A
HP A-MSR 1-port FXS SIC Module	JD561A
HP A-MSR 2-port FXS SIC Module	JD560A
HP A-MSR 2-port FXS/1-port FXO SIC Module	JD632A
HP A-MSR 2-port ISDN-S/T Voice SIC Module	JF821A
HP A-MSR 1-port E1 Voice SIC Module	JD575A
HP A-MSR 1-port T1 Voice SIC Module	JD576A
HP A-MSR 4-port E/M MIM Module	JD539A
HP A-MSR 2-port FXO MIM Module	JD543A
HP A-MSR 4-port FXO MIM Module	JD542A
HP A-MSR 4-port FXS MIM Module	JD553A
HP A-MSR 16-port FXS MIM Module	JF822A
HP A-MSR 4-port ISDN-S/T Voice MIM Module	JF837A
HP A-MSR 1-port E1 Voice MIM Module	JD565A
A-MSR 1-port T1 Voice MIM Module	JD566A
HP A-MSR 2-port E1 Voice MIM Module	JD567A
HP A-MSR 2-port T1 Voice MIM Module	JD568A
<b>Power cords</b>	
HP X290 1m RPS Cable	JD637A

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