



PBXgateway® I

Distributed Telephony Gateway for Branch Offices, Call Centers, Teleworkers and Home-based Call Center Agents

Designed for enterprises and call centers looking to extend corporate voice systems to remote locations, MCK's PBXgateway I is a highly scalable distributed telephony gateway that enables seamless remote access to corporate PBX/KTS systems and associated applications.

Easily scales in 8- and 12-user increments

Terminates EXTender® 4000 and 6000 client devices

Enables a seamless, integrated distributed enterprise

Reduces communications cost

Ensures superior voice quality

Reduces IT staff time

Ensures maximum administrative flexibility

Maximizes remote employee productivity

Leverages your legacy PBX/KTS investments towards convergence



MCK Communications, Inc.
75 Second Avenue, Suite 710
Needham, MA 02494
Toll Free: 888-454-7979
Telephone : 617-454-6100
Fax: 617-454-6101
www.mck.com



Citel Technologies
1420 Fifth Avenue, Suite 1650
Seattle, WA 98101
Toll Free: 877-248-3587
Telephone: 206-957-6270
Fax: 206-957-6275
www.citel.com

Enables a seamless, integrated distributed enterprise

The PBXgateway I is a highly scalable distributed telephony gateway designed to meet the specific needs of small to medium size branch offices. The flagship of MCK's EXTender™ family of distributed telephony devices, the PBXgateway I enables you to seamlessly integrate your entire enterprise including branch offices and teleworkers, providing customers and employees the ease and convenience of having every employee on a common voice network, regardless of their geographic location. With just one number to reach any employee, customers will appreciate how easy it is to communicate with your organization. Employees in remote locations can maximize their productivity with seamless access to the corporate voice network from any location.

Reduces communication costs

The flexible, versatile PBXgateway I offers a variety of network topologies and variable compression rates to maximize your network resources, improve network efficiency and reduce communications costs.

Telecommunications costs fall by an average of 30% when users are administered from a single location versus multiple platforms. Communications savings are also realized from the consolidation of long distance calling through the corporate voice network and dialing plan. Additional savings are realized because separate PBX/KTS systems in each branch office are no longer required.

Ensures superior voice quality

The PBXgateway I uses MCK's Remote Voice Protocol over IP (RVPoIP) to convert digital voice and phone signaling into highly efficient IP data packets, which can then be transmitted over any TCP/IP network. The PBXgateway I facilitates Quality of Service using Diffserv and IP Precedence packet tagging to enable routers to be configured to prioritize voice traffic. Additionally, the PBXgateway I features sophisticated echo cancellation and noise detection algorithms that help to ensure superior voice quality.



Ensures maximum administrative flexibility

As your business transitions to a converged voice and data network, the PBXgateway I provides a managed migration path to IP telephony, working seamlessly over traditional and next generation networks without the need for additional equipment or expensive disruptive upgrades.

This flexible gateway can be configured to operate in either a managed IP packet network or a point-to-point WAN environment over traditional networks. As your business grows, the PBXgateway I ensures ongoing scalability, enabling you to mix and match remote modules up to a total of 8 or 12 users per unit or to stack units for larger deployments.

Maximizes remote employee productivity

MCK's PBXgateway I helps employees in remote locations feel more connected to the corporate office and enables them to work more efficiently and effectively by delivering the same telephony experience as colleagues in the corporate office - including identical full-featured phonesets to access corporate PBX functions and applications, like voicemail, call accounting systems, unified messaging and ACD systems.

Leverages your legacy PBX/KTS investments towards convergence

The typical PBX is underutilized by as much as 50%*. Many organizations report that the capacity of their PBX is 2 to 5 times the number of users currently supported on it. This means a valuable corporate asset is being significantly underutilized. MCK is committed to helping you leverage this investment and to providing you with a managed migration path to convergence. Whenever you're ready, you can use your PBXgateway I to converge your voice and data traffic onto a single network, without the need for additional equipment or expensive and disruptive upgrades.

*Source: Sage Research

Technical Specifications - PBXgateway® I

System Details

Dimensions:

- Size: 17" x 11" x 1" (432mm x 280mm x 44mm)
 - Weight: 8.3 lbs (3.8 kg)
- ### Operating Environment:
- Temperature: 32° - 130° F (0° - 55° C)
 - Relative humidity: 5 to 95% (non-condensing)

General Set-Up Guidelines

- Must be deployed within 500 feet of the corporate PBX/KTS
- The PBXgateway I can be configured to run on IP transport or traditional circuit-switched and frame relay networks.
- In a point-to-point WAN environment, the PBXgateway I connects to a network access device via one of the DB-25 WAN ports and supports up to two EXTender 6000s
- In a managed IP environment, the PBXgateway I connects to a network access device via the 10Base-T LAN port and supports multiple EXTender 6000s and multiple EXTender 4000s to a maximum port capacity of either 8 or 12.

Connectors included on unit:

- Internal power supply
- One RJ-45 10Base-T Ethernet for RVPoIP and Telnet/HTML system management
- Two DB-25 WAN ports for serial RVP connection. Redundant interfaces include V.35, RS-232 or RS-530
- One Amphenol connector for 50-pin RJ-21 cable for interface with digital PBX ports

Software Support

- TCP/IP protocol support for IP traffic and management access
- RVPoIP uses UDP/IP protocol for voice transmission
- Serial RVP uses HDLC encapsulation for voice transmission
- Management and Utilities: Telnet, inband RVP, RS-232 console interface, SNMP and HTML
- Wind River's VxWorks® operating system
- Software upgradeable via LAN FTP, RS-232 serial port to PC, or inband connection between

PBX/KTS Compatibility

The PBXgateway I supports leading PBX protocols including:

- Alcatel: Omni PCX Enterprise and Office
- Avaya™: DEFINITY® ECS (all G3 releases), MERLIN MAGIX™, Communication Manager, ECLIPS Media Servers and Gateways (digital phones only)
- Ericsson: MD110
- Iwatsu: ADIX APS
- NEC: NEAX2000™, NEAX2400™, NEAX Express, Electra Elite and i-Series 28i, 124i, 124ie, 384i and 704i
- Nortel: BCM, Meridian® and Norstar®
- Panasonic: DBS 576, DBS 576HD, KX-TDA100 and KX-TDA200
- Toshiba: Strata DK and CTX (digital phones only)

Regulatory Approvals

- FCC Part 15 Class A, CE Mark, NRTL/CSA, VCCI Class 1 and CISPR 22 Class A

Voice Protocols

- Choice of voice compression standards:
 - G.729A (8 kbps)
 - G.726 (24 or 32 kbps ADPCM)
 - G.711 (64 kbps PCM)
- G.165 echo canceller software with MCK proprietary double-talk detection enhancement
- MCK Remote Voice Protocol (RVP)
- MCK Remote Voice Protocol over IP (RVPoIP)
- IP voice packets are tagged for network traffic prioritization using IP Precedence or DiffServ

Hardware

- Form Factor: Low profile, 1U rack mountable unit
- Other Components:
 - Motorola 68MH360, 33 MHz CPU
 - 4 MB Flash Memory, 512 Kb ROM, 4 MB DRAM
 - DSP Analog Devices 2185 (52 MIPS)

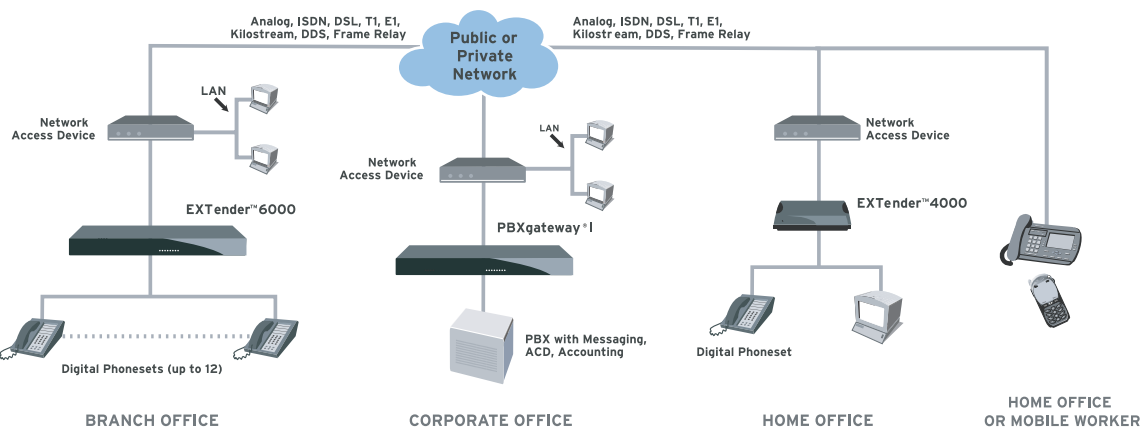
Power Supply

- Internal, universal auto ranging
- Line voltage: 100 - 240 V
- Frequency: 47 - 63 Hz
- Maximum power consumption: 75 Watts

Warranty

- One-year limited warranty for parts and labor including advance replacement when a unit is shipped back for repair. Effective January 1, 2004, advance replacement will be included on all products and will be retroactive to products purchased between January 1 and December 31, 2003.

BACK VIEW



Product specifications subject to change without notice.

*MCK's IP-based products utilize Voice over IP (VoIP) technology to deliver remote voice solutions. The voice quality of these solutions is dependent on variables such as available bandwidth, network latency and quality of service (QoS) initiatives, all of which are controlled by the network and Internet service providers. Because these variables are not in MCK's control, it cannot guarantee the performance of the user's IP-based remote voice solution.

Software release 3.1 is required for direct termination of frame relay. MCK, the MCK logo, MCK EXTender, PBXgateway, RVP and RVPoIP are trademarks of Citel Technologies Ltd. Other brand and product names referenced herein are trademarks of their respective holders.