



EXTender™ 6000

Remote client device for multiple users in branch offices and call centers

Designed for enterprises and call centers looking to extend corporate voice systems, MCK's EXTender 6000 is a remote client device that supports seamless remote access to corporate PBX/KTS systems and associated applications.

Easily scales in 8- or 12- user increments

Increases the effectiveness of distributed locations

Extends corporate PBX functionality and applications over any network

Ensures superior voice quality

Maximizes network efficiency

Centralizes and simplifies voice network administration

Leverages your legacy investments

Works seamlessly with all leading PBX/KTS systems

Increase the effectiveness of distributed locations

As companies grow and continue to open geographically dispersed locations, many are challenged to integrate remote employees with critical business systems like corporate voice and data networks. To be truly productive, remote employees need access to critical network resources, including a high-speed data connection and a feature-rich telephone system. MCK's EXTender family of products address the needs of remote employees, empowering them with easy and convenient access to all the same telephony features available at a corporate office or central call center, regardless of their geographic location. By enabling transparent access to branch office employees and call center agents through your main phone number, customers will appreciate how easy it is to communicate with your organization. Remote employees can work more efficiently and productively with seamless access to the corporate voice network from any location.

Designed for multiple users in a branch office or call center, MCK's EXTender 6000 is a remote client device that supports seamless remote access to a corporate voice network and associated applications. The EXTender 6000 transmits voice traffic and signaling over existing data networks including both legacy and managed IP networks. The EXTender 6000 resides at the remote location and connects to either the PBXgateway® I or II at the corporate office.

Ensures superior voice quality

The EXTender 6000 uses MCK's Remote Voice Protocol (RVP) and Remote Voice Protocol over IP (RVPoIP) to convert digital voice and phone signaling into highly efficient data packets. Sophisticated software features include a G.165-compliant echo canceller enhanced with extremely robust double-talk performance, manufacturer-provided PBX protocols and a range of industry standard voice compression options.



Maximizes network efficiency

By leveraging existing corporate PBX and data networking resources, network protocol support and variable compression rates minimize communications cost.

Centralizes and simplifies voice network administration

All of the EXTender 6000's configurations, management, administrative and diagnostic functions are managed via the PBXgateway I or II in your corporate office, over a serial connection, Telnet or an inband network connection. This ease and flexibility allows you to further reduce costs by maximizing valuable system administration resources.

Leverages your legacy investments

MCK is committed to providing a managed migration path to converged communications through leveraging your legacy investment and eliminating the need for expensive and disruptive upgrades. The EXTender 6000 delivers seamless access to both voice and data networks over existing data networks to the corporate office, further reducing your cost structure and ensuring the effectiveness and efficiency of your distributed workforce. What's more, the EXTender 6000 requires no new investments in IP sets, reducing your total cost of ownership and eliminating the need for additional user training.



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Technical Specifications - EXTender™ 6000

System Details

Dimensions

- Size: 17" x 8" x 1" (432mm x 203mm x 44mm)
- Weight: 6.5 lbs (3 kg)

Operating Environment

- Temperature: 32° - 130° F (0° - 55° C)
- Relative humidity: 5 to 95% (non-condensing)

Key Features

- Call blocking
- Encrypted username and password allocated by system administrator to each port
- Call suspend mode on ISDN lines with asynch terminal adapter
- 911 calling with optional analog line
- Network down recovery
- Synchronous transmission
- Support for asynchronous terminal adapters
- Copper Compatible Frame Relay encapsulation (FRF 1483 & FRF 1490)
- Support for IP Precedence and DiffServ QoS mechanisms

PBX/KTS Compatibility

The EXTender 6000 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, Merlin® and Norstar®
- Panasonic: DBS 576, DBS 576HD, KX-TDA100 and KX-TDA200
- Toshiba: Strata DK and CTX (digital phones only)

General Set-Up Guidelines

- The EXTender 6000 must be terminated by a PBXgateway I or II at the corporate office.
- Up to two EXTender 6000s can be terminated into one PBXgateway I or II over serial RVP connections.
- The EXTender 6000 requires an external network interface with a DB-25 to DB-25 RS-530 male to female straight thru cable for each WAN port (DB-25 to M34 adapters may be required for some network access devices) or RJ-45 10Base-T Ethernet cable for IP traffic. DB-25 to DB-25 RS530 cable included with 6000.
- Minimal setup programming required, either with an RS-232 serial connection to PC, LAN Telnet, PC and modem connection with inband RVP management from a PBXgateway I or II or via SNMP support (MIBs and traps)

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

Connectors included on unit

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

Voice Protocols

- Choice of voice compression algorithms: 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 Internet Protocol (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, 4MB 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

Network Management

- Telnet, inband RVP, RS-232 console interface, SNMP, HTML and phone display (limited features)

Operating System & Upgrade

- Wind River's VxWorks® operating system
- Software upgradeable via LAN FTP, RS-232 serial port to PC, or inband connection between the EXTender 6000 and an PBXgateway

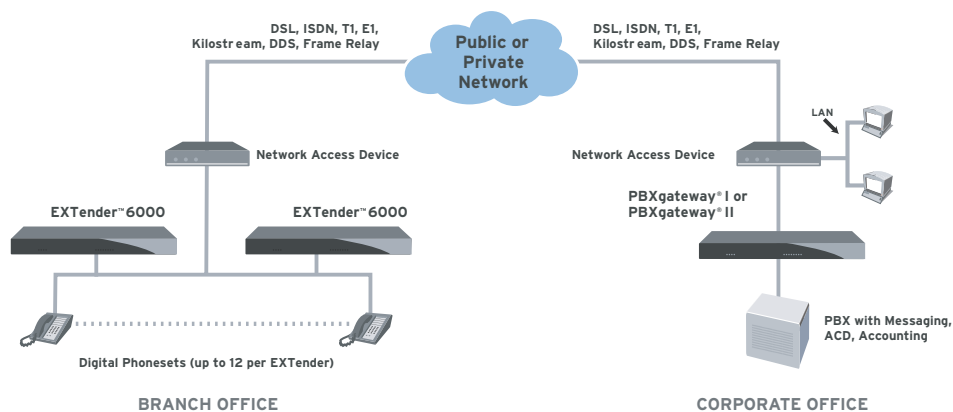
Regulatory Approvals

- FCC Part 15 Class B and FCC Part 68, CE Mark, TUV, NRTL/CSA, VCCI Class 1 and CISPR 22 Class A

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.