MCK EXTender™ 6000 for Branch Offices

This multi-user CPE enables branch offices and call centers to be seamlessly connected to the corporate voice systems over traditional and next-generation networks

MCK EXTender™ 6000

"REMOTE EMPLOYEES WON'T FEEL REMOTE ANYMORE"

If you've ever worked in a remote office, you know why they call them remote. Remote employees usually have had to settle for second-rate services because the technology was not available or the cost of duplicating resources was too high.

Now, imagine providing better services to your branch employees and your customers with minimum additional investment.

MCK's Distributed Voice Solutions affordably and seamlessly extend the features and functionality of existing corporate voice systems to:

- Branch Offices
- Call Centers

across traditional and next-generation networks.

PRODUCT OVERVIEW

With the MCK EXTender™ 6000 for Branch Offices, off-premise workers can now enjoy the features of the corporate PBX, from wherever they are located. No more feeling of seclusion from co-workers and corporate resources.

The MCK EXTender 6000 delivers quality voice over circuit-switched and managed packet networks.

The MCK EXTender 6000 supports two of MCK's proprietary protocols: Remote Voice Protocol (RVP)™ and Remote Voice Protocol over Internet Protocol (RVPoIP)™. One or more MCK EXTender 6000s can be terminated at either one of MCK's EXTender PBXgateways located at the corporate office. The MCK EXTender 6000 is available in 8-port and 12-port configurations.

MCK's proprietary remote voice protocol turns 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, licensed PBX protocols and a range of industry standard voice compression options.

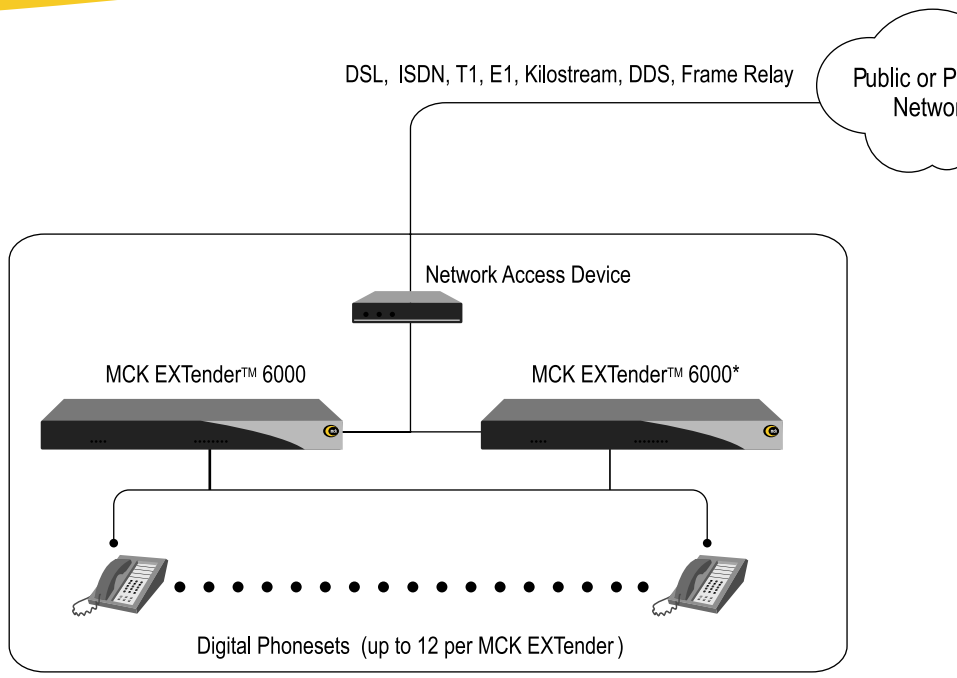
The MCK EXTender 6000 for Branch Offices enables you to provide full corporate PBX capabilities over an existing data network, making voice and data convergence a reality.

The MCK EXTender 6000 has been designed for operational simplicity, freeing branch employees from administrative tasks. All of the system's configuration, operation, and administrative and diagnostic functions may be managed using a serial connection, Telnet, dial-up modem or an inband network connection from an EXTender PBXgateway™. This flexibility allows you to maximize your company's network administration resources and lowers operating costs.

MCK EXTender™ 6000

APPLICATION SCENARIOS

- Sales offices
- Satellite call centers
- Retail operations
- Franchise outlets
- Banking or financial parks
- Municipal departments
- Manufacturing operations
- School districts
- Healthcare networks



Branch Office

FRONT VIEW

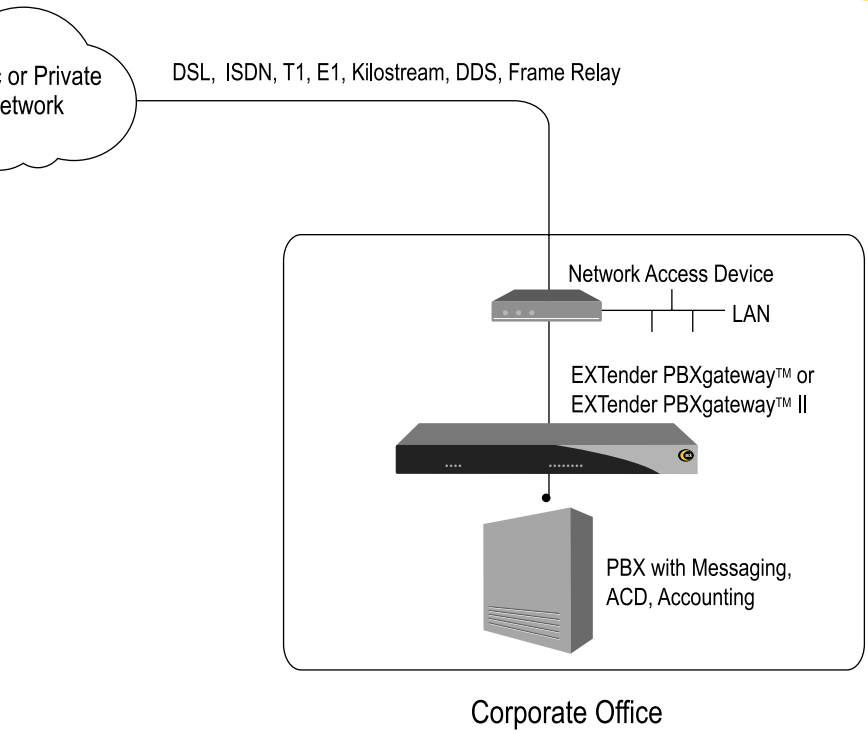
DB-9 console port for easy system management

KEY BENEFITS

- **Flexible Configurations**
  Available in 8-port or 12-port configurations.
- **Increased Productivity**
  Branch office users get fully featured digital sets and all corporate PBX, messaging, call accounting and ACD features.
- **Network Efficiency**
  Leverages existing corporate PBX and data networking resources. Choice of network protocol support and variable compression rates minimizes communications cost.
- **Ease of Use**
  Plug and play installation. Corporate and remote management tools provide flexible administration.

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
- Analog telephone line for 911 calls (optional)
- Network down recovery
- Synchronous transmission
- Support for asynchronous terminal adapters
- CopperCompatible Frame Relay encapsulation (FRF 1483 & FRF 1490)
- Support for IP Precedence and DiffServ QoS mechanisms



GENERAL SET-UP GUIDELINES

- Requires one of MCK's EXTender PBXgateways at the corporate office.
- External network interface required. Requires 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.
- Set-up via:
  - RS-232 serial connection to PC, LAN Telnet, PC and modem connection, inband RVP management from an EXTender PBXgateway
  - SNMP support (MCK MIBs and traps)

PBX/KTS COMPATIBILITY

- Alcatel
  4400 and 4200
- Avaya
  DEFINITY® ECS (all G3 releases)
  MERLIN MAGIX™ (G3V2 or later)
- Ericsson
  MD110
- Iwatsu
  ADIX APS
- NEC
  NEAX2000™, NEAX2400™, NEAX Express, Electra Elite and i-Series 28i, 124i, 124ie, 384i and 704i
- Nortel
  Meridian® and Norstar®
- Panasonic
  DBS 576 and 576HD
- Toshiba
  Strata DK

BACK VIEW

CONNECTORS INCLUDED IN BACKPLANE OF 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

MCK EXTender™ 6000

ONLINE RESOURCES

- List of recommended network access devices available at www.mck.com in the Products & Solutions section

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, 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 MCK EXTender 6000 and an EXTender PBXgateway

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 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

DIMENSIONS

- Size: 17" x 8" x 1¾" (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)

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

Cisco Systems® | Service Provider Solution Partner

*Up to two MCK EXTender 6000 for Branch Offices can be terminated into one EXTender PBXgateway or EXTender PBXgateway II over serial RVP connections.

Product specifications subject to change without notice.

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* 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.

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