

## PBXgateway™ I

Extend enterprise PBX functionality to branch offices, call centers, and single users

Citel's PBXgateway I extends seamless access to the features and applications of a central corporate PBX, allowing remote workers to better serve customers and colleagues.

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Unifies voice platform features and applications across the enterprise.

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Reduces communication costs.

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Extends the life of the corporate PBX.

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Simplifies dialing plans.

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Integrates seamlessly with leading PBX/KTS platforms.

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### The Citel EXTender™/PBXgateway™ Product Suite

Distributed enterprises utilizing a central PBX with advanced features and applications require IP migration solutions that leverage existing infrastructure investments, but also pave a road to the future of IP telephony. Citel's EXTender™/PBXgateway™ product suite accomplishes both objectives. Branch offices, call centers, mobile workers, and home-based workers connect to the corporate voice network over IP, while the enterprise extends the useful life of the existing PBX. As a result, enterprises achieve:

- Lower monthly telecom operating expenses through unified dialing plans and IP network utilization.
- Increased productivity through centralization of PBX management combined with distribution of PBX features and applications across the enterprise.
- Elimination of individual PBX or Key Systems at branch offices and call centers.

Citel's EXTender/PBXgateway telephony solutions are designed for operational simplicity. Configuration, management, administrative, and diagnostic functions are accessed using a dial-up modem, local terminal, HTML, or Telnet connection.

During the transition from digital to IP telephony, smart enterprises require the best from both. With a broad product suite for enterprises with configurations ranging from a single teleworker to a large network of branch offices and mobile employees, Citel has the right managed IP telephony migration solution for you.

### Product Features

In enterprises with distributed locations, branch locations and home-based workers often utilize telecom and datacom infrastructure that is far inferior to the headquarters location. The Citel PBXgateway I, deployed with compatible Citel EXTenders, enables off-premise workers with seamless access to the corporate voice network, regardless of geographic location. All employees utilize a single, centralized voice platform, increasing productivity and reducing operational expenditures.

The PBXgateway I terminates the Citel EXTender 4000, 4100, 6000, and IP6000. To deploy a

PBXgateway I solution, simply install one or more units within 500 feet of the PBX, and one or more compatible EXTenders at the remote location(s). The PBXgateway I works with most leading PBX platforms and digital handsets over T1, E1, ISDN, PRI, Frame Relay, and IP connections.

The PBXgateway I is available in both 8-and 12-port configurations. It supports several compression rates, allowing the enterprise to select the best performance for its specific network requirements (if available).

### Key Benefits

#### Increased Productivity

With the PBXgateway I deployed as part of a Citel solution, branch office and other remote employees use full-featured digital handsets to access the corporate PBX dial tone, receive calls, and invoke business calling features such as internal dialing, transfer, hold, and conference. The easy system maintenance frees up valuable time and resources for IT and telecom staff.

#### Cost Savings

Telecommunication costs fall by up to 30% just by administering all PBX users from a single location and platform. And with access to internal (four-digit) dialing, there are no toll charges when calling any office within the enterprise, regardless of physical location. Further, placing regular long-distance and international calls through the corporate voice system keeps all employees on a unified dialing plan.

#### Flexibility

The PBXgateway I easily scales with the growth of the enterprise: when new employees are added, simply utilize an available port or, when capacity is reached, add another PBXgateway. It supports several voice compression rates as well; the enterprise simply selects the best rate for its network (if available).

#### Ease of Maintenance

Moves, adds, and changes at branch locations can be performed from a central location, as can system performance monitoring. Network and feature permissions are controlled at the central location as if all employees were under one roof. The PBXgateway I can even be remotely managed through a variety of remote access options.

# Technical Specifications - PBXgateway™ I

## Description

Gateway terminal device

## Capacity

8 or 12 port

## PBX/KTS Interoperability

The PBXgateway™ I supports leading PBX protocols, including:

- Alcatel:OmniPCXEnterprise&Office
- Avaya:Definity®ECS(allG3releases),MerlinMagix®, and Communication Manager
- EricssonMD110
- IwatsuADIXAPS
- Nortel:BCM,Meridian®,&Norstar®
- Panasonic:DBS576&DBS576HD,KX-TDA100,&KX-TDA200
- Toshiba:StrataDK&CTX(digitalphonesonly)

## Citel Equipment Interoperability

EXTender™ 4000  
EXTender 4100  
EXTender 6000  
EXTender IP6000

## Enhanced Features

MobileConneX application

## Interfaces

OneAmphenolconnectorfor50-pinRJ-21cablefor interface with digital PBX ports

Two DB-25 WAN ports for serial RVP connection.

Redundant interfaces include V.35, RS-232 or RS-530 OneRJ-4510Base-TEthernetforRVPoIPandTelnet/HTML system management

## Voice Protocols

Supports voice compression algorithms:

- G.729A(8kbps)
  - G.726(24or32kbpsADPCM)
  - G.711(64kbpsPCM)
- G.165 echo cancellation software with Citel proprietary double-talk detection enhancement  
Citel Remote Voice Protocol (RVP)  
Citel Remote Voice Protocol over Internet Protocol (RVPoIP)

## Configuration&Management

The PBXgateway I must be deployed within 500 feet of the physical PBX/KTS.

In a managed IP environment, the PBXgateway I connects to a network access device via the 10 Base-T LAN port and supports multiple EXTender IP6000s, 6000s, 4100s, and 4000s.

Supported utilities:

- RS-232consoleinterface
- Telnet
- HTML
- SNMP
- phonedisplay(limitedfeatures)
- InbandRVP

## Network Protocol 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.

## Physical

Form Factor: Low Profile, 1U rack mountable unit  
Size: 17" w x 11" d x 1" h (432mm x 280mm x 25mm)  
Weight: 8.3 lbs (3.8 kg)

## Power

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

## Environmental

Temperature: 32 - 130 F (0 - 54 C)  
Relative humidity: 5 - 95% (non-condensing)

## Regulatory

FCC  
47 CFR Part 15, Subpart B, Class B  
Part 68, Subpart D

Industry Canada  
CS-03 Part 1 Issue 8

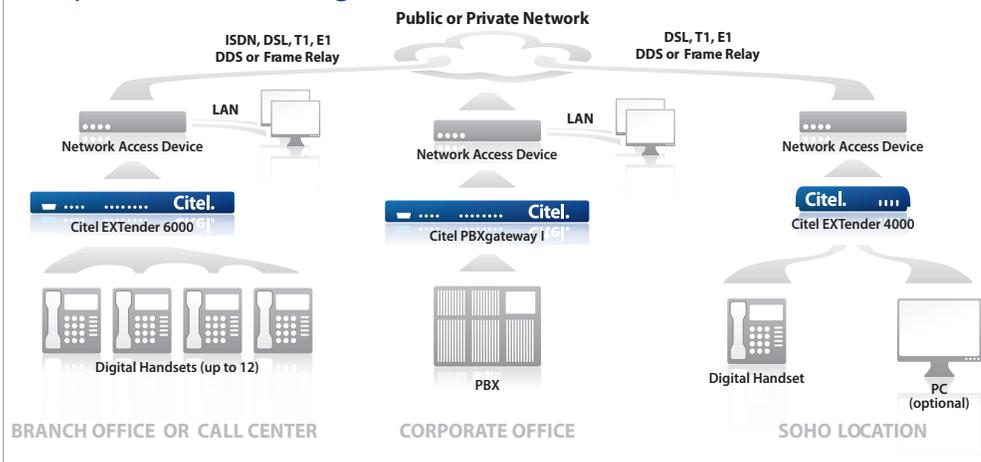
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55024 (98) + A1 + A2

## Warranty

One-yearlimitedwarrantyforparts&labor.  
Extended warranty options available.

## Sample Network Configuration



PBXGI-0807

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