

## EXTender™ 3000 Series

Extend corporate telephony features to teleworkers over ISDN networks

Citel's EXTender 3000 Series gives teleworkers and other single users seamless access to the same telephony features as corporate office staff.

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Reduces communication costs.

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Extends the life of the corporate PBX.

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Ensures outstanding voice quality.

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Simplifies calling plans.

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Integrates seamlessly with all leading PBX/KTS systems.

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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 seamlessly connect to the corporate voice network, 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

Citel's EXTender 3000 Series gives teleworkers and other single users with ISDN connections seamless remote access to the corporate voice and data networks, and associated applications. There are two remote EXTender 3000 models:

- The EXTender 3000T uses the second ISDN B channel to emulate a terminal adapter, allowing users to connect their PC to the LAN via a PPP dial-up connection.
- The EXTender 3000E uses the second B channel for data transmission through a 10 Base-T Ethernet connection.

Depending on the needs of the remote user, the second B channel can also be used for analog applications such as fax or modem connection.

Setup and configuration are straightforward. Simply connect EXTender 3000 remote units at the remote location over an ISDN line, and connect EXTender 3000 switch units at the PBX. For larger deployments, multiple EXTender 3000s can be connected to the Citel PBXgateway II at the PBX location. Either way, installation is plug-and-play, and set-up is easily accomplished using the phone display or a PC.

### Key Benefits

#### Increased Productivity

Teleworkers and other remote employees can access central PBX dial tone, receive office-bound calls, and invoke business calling features such as internal dialing, transfer, hold, and conference. Users who also maintain a workstation at the corporate office can provide callers with a single reach number, and enjoy the convenience of one voice mailbox for all messages. And the easy system maintenance frees up your IT staff's valuable time as well.

#### 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 EXTender 3000 Series interoperates with all leading PBX and Key systems, allowing remote users to connect to the corporate voice system via the existing call control platform. In addition, the EXTender 3000 Series is an affordable, scalable solution when adding teleworkers or other single users. New users can be easily connected with a standard EXTender 3000 configuration at the remote location, and an EXTender 3000 switch unit or compatible PBXgateway port at the PBX.

# Technical Specifications - EXTender™ 3000 Series

## Description

Single-user remote client device  
Single-user switch device

## Capacity

1 port (both devices)

## Supported Handset Models

The Citel EXTender™ 3000 supports leading handsets, including popular models from all manufacturers with compatible PBX protocols (see list below)

## PBX Interoperability

The Citel EXTender 3000 supports leading PBX protocols, including:

- Alcatel: 4200, 4400, Omni PCX Enterprise and Office
- Avaya: Definity® ECS (release 3 or later)
- Ericsson: MD110 and BP250
- Nortel: BCM, Meridian®, and Norstar®

## Citel Equipment Interoperability

PBXgateway™ II

## Interfaces, Remote Units

RJ-11 for analog device connection  
RJ-11/RJ-45 for digital telephone set  
RJ-45 10 Base-T Ethernet for PC connection (optional)  
RJ-45 for ISDN cable  
DB-9 RS-232 for device management (both models), and data transmission (model T only)  
Power supply

## Interfaces, Switch Units

RJ-11 for analog device connection  
RJ-11/RJ-45 for supported switch/PBX  
RJ-45 10 Base-T Ethernet for PC connection (optional)  
RJ-45 for ISDN cable  
DB-9 RS-232 for device management (both models), and data transmission (model T only)  
Power supply

## Voice Protocols

Voice compression algorithm G.726 (32 kbps ADPCM)  
G.165 compliant double-talk echo cancellation

## Configuration & Management

The EXTender 3000 supports ISDN BRI connections. Must be terminated by either an EXTender 3000 switch unit or the PBXgateway II at the PBX location. Model T data connection is via a PPP dial-up connection through a DB-9 to RS-232 at 57.6 kbps. Model E data connection is via a 10 Base-T Ethernet at 64 kbps plus compression. Supported Utilities:  
• Console/serial port (RS-232)  
• Phone display (limited features)

## Power

External adapter (included)  
Line voltage: 120 VAC  
Frequency: 60 Hz  
Maximum power draw: 16 Watts

## Physical

Form factor: small footprint, desktop or wall mountable  
Size: 8.0" x 8.0" x 1.5" (205mm x 205mm x 40mm)  
Weight: 2.2 lbs (1kg)

## Environmental

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

## Regulatory

FCC  
47 CFR Part 15, Subpart B  
(Class A on switch; Class B on remote)  
Part 68, Part 68, Subpart D

Industry Canada  
CS-03 Part 1 Issue 8

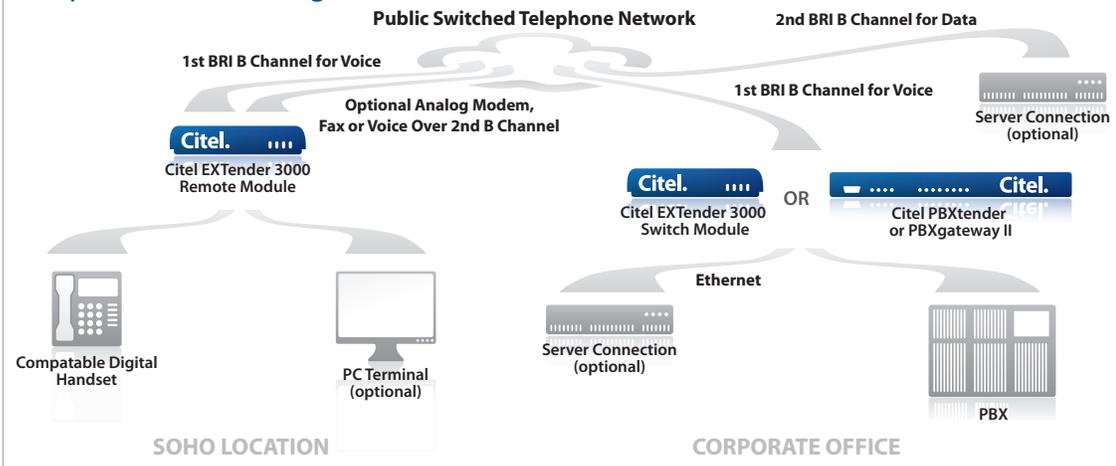
CSA NRTL/C  
CAN/CSA-C22.2 No. 950-93  
CAN/CSA-C22.2 No. 225-M90

UL Std. No. 1459  
UL Std. No. 1950-95

## Warranty

One-year limited warranty for parts & labor.  
Extended warranty options available.

## Sample Network Configuration



EXT3000-0807

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