

## EXTender™ 7000 Series

### Extend enterprise PBX functionality to branch offices and call centers

Citel's EXTender 7000 enables seamless access to the features and applications of a central corporate PBX, allowing remote workers to better serve customers and coworkers.

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Reduces communication costs.

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Extends the life of the corporate PBX.

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Unifies voice platform features and applications across the enterprise.

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Simplifies calling plans.

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Integrates seamlessly with all leading PBX/KTS systems.

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Ensures outstanding voice quality.

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Provide survivability to branch offices.

#### 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 an IP 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 of both worlds. 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

The EXTender 7000 and 7000T are 24-port remote client devices. They are designed for branch offices and call centers with 13 or more employees per location. To deploy a Citel EXTender 7000 solution, install one or more units at each remote location, and a Citel PBXgateway II at the corporate office. EXTender 7000s work with leading PBXs and digital handsets over T1, E1, ISDN, PRI, frame relay, and managed IP networks. Both 7000 models include an FXO port that ensures easy 911 call locating, and survivability in case of WAN failure.

The EXTender 7000T adds an integrated dual-port T1 interface. Enterprises with T1 or E1 lines will benefit from the local trunk line and intranet data transmission features. First, multiple channels can be allocated for use as local trunk lines. Any port on the EXTender 7000T can be configured to access the trunk lines when dialing the branch office's local area. Voice traffic is sent over the WAN link only when voice features are invoked. This is

especially beneficial in case of a WAN failure, when all calls must be routed through the PSTN.

In addition, the EXTender 7000T eliminates the need for an external network access device. Voice and data traffic to and from the main office are aggregated for transmission over the same T1 lines. Direct network termination also reduces footprint and wiring requirements at both the corporate and remote office locations.

#### Key Benefits

##### Increased Productivity

Branch office and other remote employees use the same full-featured digital sets as the central location to access PBX/KTS dial tone, receive office-bound calls, and invoke business calling features such as internal dialing, transfer, hold, and conference. Straightforward configuration and management allows IT and telecom staff to focus on employee productivity instead of remote voice system maintenance.

##### 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 extension 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 Citel EXTender 7000 and 7000T interoperate with leading PBX and Key systems from Avaya and Nortel. Most enterprises can leverage their existing call control platform to connect remote offices to the corporate voice system. The 7000 series is also an easily scalable solution for branch offices. New employees can easily be added by utilizing an available EXTender port or, when capacity is reached, by adding another EXTender.

##### 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 EXTender 7000 can even be remotely managed through a variety of remote access options and user port configurations.

# Technical Specifications - EXTender™ 7000 Series

## Description

Branch office remote client device

## Capacity

24 port

## Supported Handset Models

The Citel EXTender™ 7000 supports leading PBX protocols, including:

- Avaya Definity®
- Nortel: Meridian® and Norstar®

## PBX Interoperability

The Citel EXTender 7000 supports leading PBX protocols, including:

- Avaya: Definity® CS (all G3 releases), ECLIPS Media Servers and Gateways (digital phones only)
- Nortel: Meridian®, and Norstar®

## Citel Equipment Interoperability

PBXgateway™ I  
PBXgateway II

## Interfaces

One RJ-11 analog port for POTS (emergency backup line)

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

Two RJ-45 10/100 Base-T Ethernet ports (AUX LAN for RVPoIP and/or remote management; LAN for REPoIP traffic)

Network interface card with two RJ-45 connectors  
Power supply

## Voice Protocols

Choice of voice compression algorithms:

- G.729A (8 kbps ADPCM)
- G.726 (24 or 32 kbps ADPCM)
- G.711 (64 kbps PCM)

G.165 compliant double-talk detection echo cancellation

RVP™  
RVPoIP™

## Configuration & Management

The EXTender 7000 Series must be terminated by a Citel PBXgateway at the corporate PBX location.

Over circuit-switched networks, the EXTender 7000 interfaces directly with the network via one of the network interface ports.

Over managed IP networks, the EXTender 7000 connects to an IP-capable DSU or router via a 10/100 Base-T port.

Supported Utilities:

- SNMP
- Telnet
- HTML
- Phone display (limited features)
- RS-232 console interface
- LAN FTP
- TCP/IP

## Physical

Form factor: low profile, 1U rack mountable unit  
Size: 17" x 11" x 1.75" (432mm x 203mm x 44mm)  
Weight: 8.0 lbs (3.6 kg)

## Power

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

## Environmental

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

## Regulatory

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

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

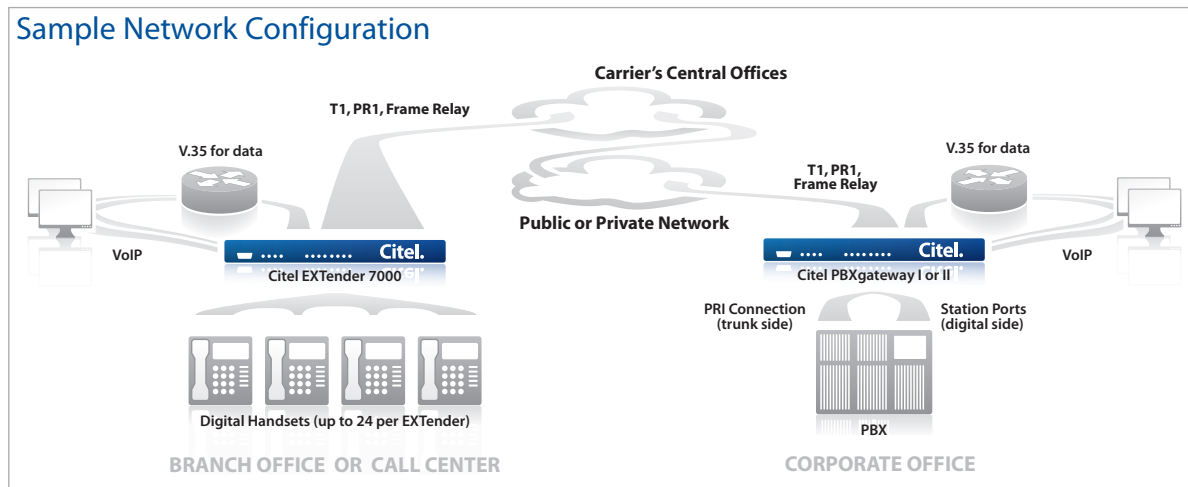
UL Std. No. 1459  
UL Std. No. 1950-95

Industry Canada  
CS-03, Part 1, Issue 8

## Warranty

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

## Sample Network Configuration



EXT7000-0807

## Citel. The VoIP Migration Company™

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