

## EXTender™ IP6000 Gradual IP Telephony Migration Solution for Distributed Enterprises

The EXTender IP6000 enables seamless access to the features and applications of a central corporate PBX, with future upgradability to a Telephone VoIP Adapter (TVA).

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Extend the life of the enterprise PBX.

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Unify voice platform features and applications across the enterprise.

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Use the same Citel equipment with an IP PBX or hosted IP platform.

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Reduce communication costs.

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Simplify dialing plans.

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### Product Features

Most IP telephony solutions require a complete “rip and replace” of voice and data infrastructure: new IP handsets, new LAN infrastructure, and a new IP PBX. With Citel, the enterprise can obtain the benefits of IP telephony, while retaining existing voice network equipment and infrastructure. Enterprises retaining their PBX utilize an EXTender™/PBXgateway™ solution, and those who are upgrading to an IP PBX or hosted IP platform choose the Portico™ Telephone VoIP Adapter (TVA™). But what about the enterprise planning to replace the legacy PBX within a year or two? Now there is a one-stop solution: the Citel EXTender IP6000.

Configured with the legacy PBX, the IP6000 functions as a Citel EXTender to give off-premise workers seamless access to the corporate voice network, regardless of geographic location. When the enterprise is ready to migrate to an IP PBX or hosted IP platform, the EXTender IP6000 is software-upgraded to function as a TVA; the enterprise continues to leverage its investment in legacy handsets and LAN wiring using the same Citel equipment.

The Citel EXTender IP6000 is designed for distributed enterprises with legacy PBX investments, but anticipating upgrading to an IP PBX or hosted IP platform within two years. To deploy Citel's EXTender IP6000 solution with the existing PBX, simply install one or more units at each branch office, and compatible Citel PBXgateways at the PBX location. The EXTender IP6000 works with leading PBX platforms and digital handsets over an IP or managed network. Installation is plug-and-play, and set-up is easily accomplished via a PC connection with an intuitive setup menu.

When the enterprise upgrades to an IP PBX or hosted IP platform, the IP6000s continue to be deployed at each branch office, and are software-upgraded to TVA functionality. To connect digital handsets at the corporate location to the new IP telephony platform, the enterprise can deploy additional IP6000s or Citel Portico TVA units.

The EXTender IP6000 is equipped with an FXO port, which offers two important benefits: using the PSTN for 911 and other emergency calls makes

user locating easy, and survivability is ensured in case of WAN failure. In addition, the IP6000 supports different voice compression rates, allowing the enterprise to select the rate best for its network (if available from service provider).

### Key Benefits

#### Increased Productivity

Branch office and other remote employees use fully featured digital sets to access PBX/KTS dial tone, receive office-bound 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. Finally, the same Citel product leverages investments in legacy desksets and LAN cabling in both traditional and IP PBX environments.

#### Flexibility

The EXTender IP6000 offers the ultimate in flexible IP telephony migration. Enterprises take the first step with an EXTender/PBXgateway deployment. When ready, they upgrade to an IP PBX or hosted IP platform, using the same Citel equipment to continue utilizing existing handsets and LAN cabling. In addition, the IP6000 scales easily and is ideal for offices with a few as five to as many as several hundred employees. When new employees are added, simply utilize an available IP6000 port or, when capacity is reached, add another IP6000.

#### Ease of Maintenance

System performance monitoring can be performed from a central location, and branch location moves, adds, and changes are greatly simplified. Network and feature permissions are controlled at the central location as if all employees were under one roof. The EXTender IP6000 can even be remotely managed through a variety of remote access options and user port configurations.

# Technical Specifications - EXTender™ IP6000

## Description

Branch office remote client device  
SIP-enabling terminal adapter

## Capacity

12 port

## Supported Handset Models

In EXTender™ mode, the IP6000 supports the following handsets:

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

In TVA™ mode, the IP6000 supports numerous handset types in addition to the above list, including:

- NEC Dterm/Dterm I
- Panasonic DBS
- Toshiba Strata DK

## PBX/KTS Interoperability

The EXTender IP6000 supports leading PBX platforms, including:

- Avaya: Definity® Ecs & Merlin Magix®
- Nortel: Meridian®, Norstar®, and BCM

## IP PBX Interoperability

The Citel EXTender IP6000 interoperates with leading IP PBX platforms, including:

- Asterisk
- Avaya Communication Manager with SES
- BroadWorks® by Broadsoft
- Cisco
- MetaSwitch
- Sylantra

## Citel Equipment Interoperability

PBXgateway™ I  
PBXgateway II

## Enhanced Features

Software upgradeable to TVA configuration  
Active Call Monitoring (Norstar only)  
Advanced ACD function support  
Analog port for 911 calls

## Interfaces

10/100 Ethernet RJ-45  
RJ-11 Analog  
12 Digital Lines over 25-pair RJ-21

## Voice Protocols

Supports voice compression standards:

- G.729A
  - G.726 (24 or 32 kbps ADPCM)
  - G.711
- Citel Remote Voice Protocol over Internet Protocol (RVPoIP)

## Configuration and Management

In EXTender mode, up to two IP6000s can be terminated into one PBXgateway or PBXgateway II over serial RVP connections.

In TVA mode, there are no PBXgateways in the configuration.

Supported utilities:

- RS-232 serial connection to PC
- LAN Telnet
- HTML
- PC and modem connection
- phone display (limited features)
- SNMP support (Citel MIBs and traps)

## Software Support

TCP/IP support for IP traffic and management access.  
RVPoIP uses UDP/IP protocol for voice transmission.

## Physical

Form Factor: Low Profile, 1U rack mountable unit  
Size: 17" x 8" x 1 3/4" (432mm x 203mm x 44mm)  
Weight: 6.7 lbs (3.1 kg)

## Power

Universal auto ranging  
Line voltage: 100 – 240 V  
Frequency: 50 – 60 Hz  
Maximum power consumption: 75 Watts

## Environmental

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

## Regulatory

FCC  
47 CFR Part 15 Class B  
47 CFR Part 68 US

CE EN55024+A1/A2  
EN6100-3-2  
EN6100-3-3

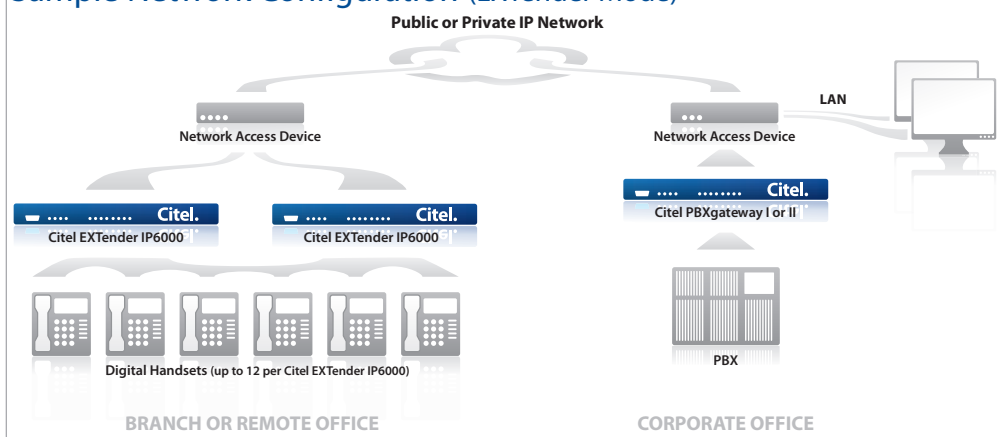
Industry Canada CS-03  
387B-EXT6001

Safety UL60950-1  
C22-2 No60950-1  
EN60950-1  
IEC60950-1

## Warranty

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

## Sample Network Configuration (EXTender Mode)



IP6000-0807

## Citel. The VoIP Migration Company™

### Corporate Headquarters

221 Commerce Drive  
Amherst, New York  
14228 USA

Phone: +1 206 957 6270

Fax: +1 206 957 6275

### England Headquarters

Loughborough Innovation  
Center  
Epinal Way, Loughborough  
Le11 3EH United Kingdom

Phone: +1 877 248 3587

### Canadian Headquarters

151 North Rivermede Rd.  
Concord, Ontario  
L4K 0C4 Canada

Phone: +1 416 644 5527

Fax: +1 416 644 5528

### For More Information

#### Contact Citel Directly

sales@citel.com

+1877 248 3587

citel.com