EXTender™ 4000
Extend corporate telephony features to SOHO users over IP

Citel's EXTender 4000 gives teleworkers and other single users seamless access to the same telephony features as corporate office staff.

Reduces communication costs.

Extends the life of the corporate PBX.

Ensures outstanding voice quality.

Simplifies calling plans.

Integrates seamlessly with all leading PBX/KTS systems.

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 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 4000 gives workers in Small Office/Home Office (SOHO) environments seamless remote access to the corporate voice and data networks, and associated applications, utilizing DSL or a cable modem.

To install the EXTender 4000, simply connect a unit to a compatible handset and a broadband Internet connection at the remote location, and a Citel PBXgateway I, II, or 4100 at the PBX location. Set-up is easily accomplished using the phone display or a PC. With the optional second Ethernet port, a PC may also be connected to the EXTender to access the network.

Key Benefits

Increased Productivity
SOHO workers use the same full-featured digital PBX handsets 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. 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. 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 EXTender 4000 interoperates with all leading PBX and Key systems, allowing remote users to connect to the corporate voice system via the existing call control platform. New teleworkers and other single remote users can be easily added with an EXTender 4000 deployment at the remote location, and a PBXgateway port at the PBX. It supports several voice compression rates as well; the enterprise simply selects the best rate for its network (if available).

Technical Specifications - EXTender™ 4000

Description

Single-user remote client device

Capacity

1 port

Supported Handset Models

The Citel EXTender™ 4000 supports leading handsets, including popular models from all manufacturers with compatible PBX protocols (see list below)

PBX Interoperability

The Citel EXTender 4000 supports leading PBX proto-cols, including:
- Alcatel:4400&4200
- Avaya:Definity®CS(allG3releases),MerlinMagix®, and Communication Manager
- EricssonMD110
- IwatsuADIXAPS
- Nortel:BCM,Meridian®,andNorstar®
- Panasonic:DBS576,DBS576HD,KX-TDA100,and KX-TDA200
- Toshiba:StrataDK&CTX(digitalphonesonly)

Citel Equipment Interoperability

PBXgateway™ I
PBXgateway II
PBXgateway 4100

Network Interfaces

RJ-45fordigitaltelephoneset
RJ-45for10Base-TEthernetforWANconnection
RJ-4510Base-TEthernetforPCconnection(optional)
Power supply

Voice Protocols

Choice of voice compression algorithms:
- G.729A(8kbpsADPCM)
- G.726(24o32kbpsADPCM)
- G.711(64kbpsPCM)

G.165 compliant double-talk detection echo cancella-tion
RVPoIP uses UDP/IP protocol for voice transmission
Comfort Noise Generation

Configuration&Management

The EXTender 4000 works over any managed IP net-work with a router, DSL modem, or other remote access device.
The EXTender 4000 must be terminated by a compat-ible PBXgateway at the PBX location.
Supported Utilities:
- InbandRVP™
- Telnet
- Phonedisplay(limitedfeatures)
- TCP/IP

Physical

Form factor: small footprint, desktop or wall mountable unit
Size: 6.3" x 5.35" x 1.35" (160mm x 136mm x 34.25mm)
Weight: .6 lbs (.3 kg)

Power

External adapter (included)
Line voltage: 120 VAC
Voltage requirement: 12 VDC
Power supply: 800 mA
Maximum power consumption: 16 watts

Environmental

Temperature: 32 - 130 F (0 – 55 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

CSA C22.2 No. 60950-1 (03)
UL 60950-1 (03)
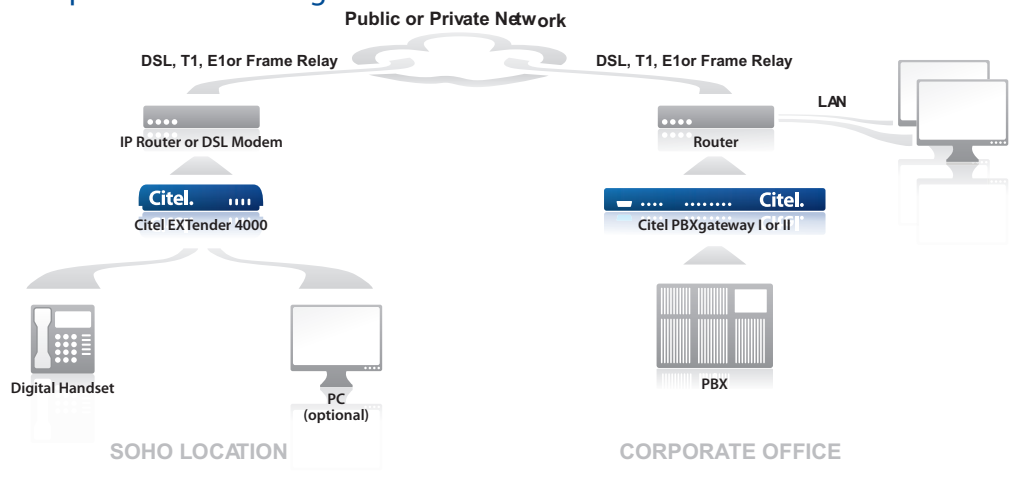EU 60950-1 (01)
IEC 60950-1 (00)

EN 55022 (98) +A1 +A2
EN 55024 (98) +A1 + A2

Warranty

One-yearlimitedwarrantyforparts&labor.
Extended warranty options available.

Sample Network Configuration

Public or Private Network

DSL, T1, E1or Frame Relay — DSL, T1, E1or Frame Relay

IP Router or DSL Modem — Router — LAN

Citel EXTender 4000 — Citel PBXgateway I or II

Digital Handset — PC (optional) — PBX

SOHO LOCATION — **CORPORATE OFFICE**

EXT4000-0807