

EXTender™ 4100 Series

Extend corporate telephony features to SOHO users over IP

Citel's EXTender 4100 Series enables teleworkers and small branch offices with the same telephony features and applications as corporate office staff.

Reduces communication costs.

Extends the life of the corporate PBX.

Ensures outstanding voice quality.

Simplifies calling plans.

Integrates seamlessly with 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

The EXTender 4100 Series is available in single-or dual-port remote configurations, and a dual-port Series-specific PBXgateway 4100 switch unit, to support growing enterprises with Small Office/Home Office (SOHO) workers:

The single-port EXTender 4100 features one digital handset port and an Ethernet port so a computer may be connected to the corporate network. Adding an optional FXO port provides two important benefits. First, it offers survivability in case of WAN failure. Second, the EXTender 4100 can be programmed to automatically use the PSTN for 911 calls, so authorities can easily locate users.

The dual-port EXTender 4100 has the same features as the EXTender 4100, with the addition of a second digital handset port. This model includes one standard FXO port.

The dual-port model is an ideal choice for two-person offices; a deployment of two units may be the most economical option in a 3- or 4-person office as well.

The EXTender 4100 Series works with your existing phone system to extend the enterprise PBX/KTS dial tone and features to the remote user(s). Features such as internal dialing, hold, conference, and transfer are available just as if the user was at the corporate office.

For small deployments, simply connect the EXTender 4100 to a broadband Internet Access Device and any compatible digital handset at the user's location; and a compatible PBXgateway at the corporate PBX. Small deployments are cost-effectively terminated by the PBXgateway 4100, while larger deployments are more commonly terminated by the Citel PBXgateway I or II instead.

Key Benefits

Increased Productivity

Teleworkers and other remote employees use full-featured digital handsets to 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 have the convenience of one voice mailbox for all messages. And easy configuration and system maintenance frees valuable time for your IT 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 EXTender 4100 series interoperates with popular PBX platforms from Avaya, Nortel and Ericsson. Enterprises leverage their existing PBX investment to centralize users on a single voice platform. The 4100 Series is scalable to the capacity of the central PBX. New employees are added quickly and easily by utilizing a gateway port at the PBX, and an EXTender and compatible handset at the employee's location. In addition, it supports several voice compression rates; the enterprise simply selects the best rate for its network (if available).

Technical Specifications - EXTender™ 4100 Series

Description

Single- and dual-port remote client devices
Dual-port switch device

Capacity

1 or 2 port

Supported Handset Models

The Citel EXTender™ 4100 supports leading handsets, including:

- Avaya Definity® and Merlin Magix®
- Ericsson MD110 and BP250
- Nortel Meridian® and Norstar®

PBX Interoperability

The Citel EXTender 4100 supports leading PBX protocols, including:

- Avaya Definity®, Merlin Magix® and IP Office
- Ericsson MD110
- Nortel Meridian® and Norstar®

Citel Equipment Interoperability

PBXgateway™ I
PBXgateway II

Interfaces, Remote Units

RJ-45 for digital PBX ports (2)
RJ-45 10/100 Base-T Ethernet
RJ-45 10 Base-T Ethernet for RS-232
FXO models include one RJ-11 for PSTN
External power supply

Interfaces, 2-port Switch Units

RJ-45 for digital PBX ports (2)
RJ-45 10/100 Base-T Ethernet
RJ-45 10 Base-T Ethernet for RS-232
External power supply

Voice Protocols

Choice of voice compression algorithms:

- G.729 A (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™ (uses UDP/IP protocol for voice transmission)

Configuration & Management

The EXTender 4100 must be terminated by a 4100 switch unit or Citel PBXgateway at the PBX location.

Supported Utilities:

- SNMP
- Inband RVP™
- Telnet
- HTML (monitoring only)
- Phone display (limited features)
- 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), 100 - 240 V
Voltage requirement: 12 VDC, 1A
Frequency: 47 - 63 Hz
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

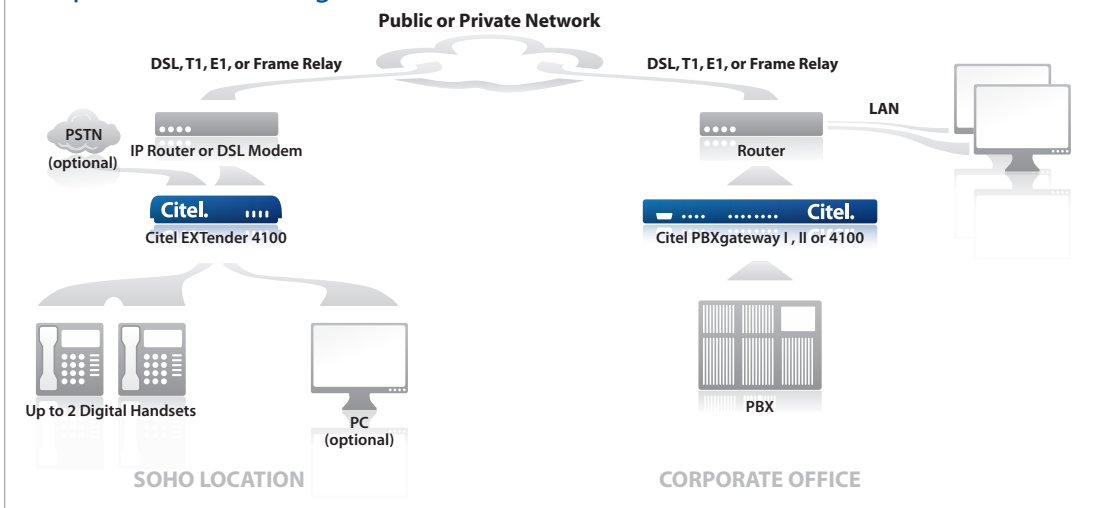
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UL 60950-1 (03)
EU 60950-1 (01)
IEC 60950-1 (00)

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

Warranty

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

Sample Network Configuration



EXT4100-1007

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