

## Portico™ Telephone VoIP Adapter (TVA™) Changing the Dynamics of VoIP Migration

No other solution on the market enables enterprises to gain the benefits of VoIP telephony faster or more cost-effectively.

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Transparent migration to IP telephony.

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Leverages existing infrastructure.

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Little or no end user retraining.

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Dramatic cost savings over "rip and replace".

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### Overview

Enterprises migrate to IP telephony for a number of reasons. They want cost savings. They want to better serve their customers. They want to gain a competitive edge.

But most VoIP migration solutions are expensive, time consuming, and disruptive. They involve obtaining LAN assessments, purchasing new LAN switching gear, rewiring, and retraining. All to support new IP handsets that may not be necessary to obtain the benefits of VoIP. In fact, according to an August 2006 Gartner Research report, an estimated \$20.6 billion will be wasted on IP screen phones over the next five years.

The Citel Portico™ Telephone VoIP Adapter (TVA™) changes the dynamics of VoIP migration by enabling enterprises to obtain all the benefits of IP telephony utilizing the PBX telephones and wiring infrastructure they already have in place.

Whether the enterprise is migrating to a hosted IP platform through a service provider or managing their own on-premise IP PBX, Portico TVA simplifies the migration process, and is transparent to end users in most deployments. With Portico TVA, legacy PBX telephones become new IP endpoints, so replacement simply becomes unnecessary.

The economics of Portico TVA are so compelling, enterprises can justify migration to IP telephony even in the middle of the traditional PBX "buy cycle". Cost-savings, productivity enhancements, additional functionality, and converged applications are all within reach.

After a fast, simple VoIP migration with Portico TVA, enterprises with hosted or premise-based VoIP achieve:

- Reduced monthly telecom operating expenses through centralized voice mail, IP network utilization, and the elimination of PBX and/or Key systems across the enterprise.
- Increased productivity through centralization, or even outsourcing, of voice network management combined with enterprise-wide distribution of features and applications.
- Seamless migration to a unified communications platform.

With so much to gain, enterprises seeking the benefits of IP telephony and convergence have no reason to wait.

### Features

The Citel Portico TVA is available in digital (PBX), P phone (Centrex), and analog compatible configurations. All integrate seamlessly with either an on-premise IP PBX or hosted IP service to deliver IP telephony features and functionality to more than 100 handset types, utilizing existing cabling and LAN infrastructure.

Portico TVA units are available with either 12 or 24 ports, and easily scale to the number of stations in the enterprise. All configurations are equipped with two FXO ports, which allows both easy 911 call locating, and survivability in the case of WAN failure.

In addition, Portico TVA supports compression standards G.729AB, G.711 u-law, and G.711 A-law. The enterprise simply selects the best rate for its network (if available).

### Key Benefits

#### Cost Savings

Migration costs with Portico TVA are \$150 - \$500 less *per port* than "rip and replace" deployments. In addition, IP PBX platforms, whether hosted or on-premise, can drastically reduce toll and long distance charges. At the same time, features are added to streamline operations and control costs, such as enhanced reporting and call control.

#### Flexibility

Portico TVA interoperates with leading IP PBX and hosted IP platforms, and more than 75 handset types. It also easily scales with the growth of the enterprise: when new employees are added, simply utilize an available port or, when capacity is reached, add another Portico TVA unit.

#### Increased Productivity

When deploying a Portico TVA, users will already be familiar with their handset — it's the one that has been on their desk. Phones can either be programmed with the same or similar features from the legacy PBX, or updated with the latest VoIP features delivered by the IP PBX or hosted IP service.

# Technical Specifications - Portico™ Telephone VoIP Adapter (TVA™)

## Description

SIP-enabling digital (PBX) terminal adapter  
SIP-enabling P phone (Centrex) terminal adapter  
SIP-enabling analog terminal adapter

## Capacity

12 or 24 port

## Supported Handset Models

Portico™ TVA™ supports leading handsets, including:

- Avaya Definity®
- Ericsson DBC
- NEC Dterm/Dterm I
- Nortel: Meridian® 1 & Norstar®
- Panasonic DBS
- Siemens optiset® and optiPoint™
- Toshiba Strata DK
- Nortel P phone

## IP PBX Interoperability

PorticoTVA interoperates with leading IP call control platforms, including:

- Asterisk
- Avaya Communication Manager / SES IP-Office, R6.0
- BroadSoft BroadWorks Sylanro
- Cisco Unified Communications Manager (CUCM) 5.1 or later
- EasyRun EPICAcce
- MetaSwitch
- Mitel 3300
- Nortel / Pingtel
- Tadiran CoralSea Softswitch

## Interfaces

10/100 Base-T Ethernet  
RS-232 standard serial port  
RJ-11 FXO Analog (2)  
24 Digital line interfaces over 25-pair RJ-21  
24 Analog line interfaces over 25-pair RJ-21

## Voice Protocols

SIP (per IETF-SIP-RFC3261)  
RTP  
Codec:

- G.711 u-law
- G.711 A-law
- G.729 A/B

Advanced features:

- Silence Suppression
- Comfort Noise Generation
- G.168 Echo Cancellation

Configuration & Management  
SNMP  
DHCP  
Web GUI  
Telnet  
HTML  
FTP client  
Serial port (RS-232)  
Phone display (limited features)

## Other

QoS: ToS and IP Precedence  
VLAN Tagging: 802.1Q  
DTMF: Send in RTP (RFC2833)

## Physical

Low profile, 1U rack-mountable unit  
Size: 17" x 10½" x 1¾" (432mm x 271mm x 44mm)  
Weight: 7.1 lbs (3.3 kg)

## Power

Internal, universal auto ranging  
Line voltage: 100-127/200-240VAC  
Frequency: 50-60 Hz

Maximum power consumption: 100 Watts

## Environmental

Temperature 32 - 104 F (0 - 40 C)  
Relative humidity: 5 - 95% (non-condensing)

## Regulatory

FCC  
47 CFR Part 68  
TIA-968-A

Industry Canada  
CS-03 Issue 9 Part I  
CS-03 Issue 9 Part V

EU Telecom Testing  
TBR21  
TR 103 000-1 (ATAAB Notes)

Safety  
IEC 60950-1:2001  
EN 60950-1/A11:2004  
Test Procedure CB Scheme

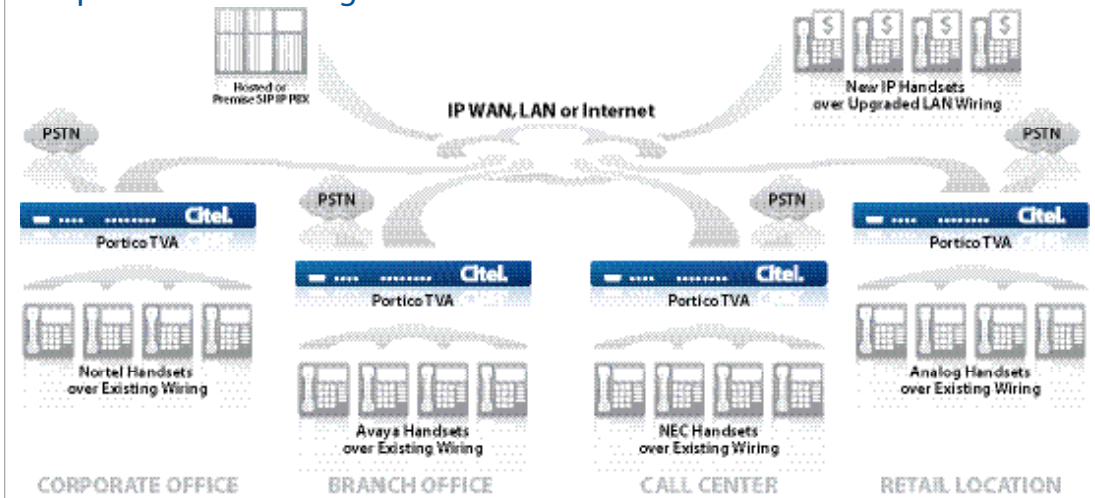
EMC  
CISPR 22 Ed 3 : 1997  
CISPR 24 Ed 1 / A2: 2002  
Test procedure CB Scheme

CE Mark  
European Directives compliance  
LVD, R&TTE, RoHS, WEEE

## Warranty

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

## Sample Network Configuration



PTVA-0108

## Corporate Headquarters

221 Commerce Drive  
Amherst  
New York  
14228 USA

## European Headquarters

The Innovation Centre  
Epinal Way  
Loughborough  
LE11 3EH United Kingdom

## Canadian Headquarters

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

## Regional Offices

Vancouver, BC  
Boston, MA

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