

Portico™ TVA™ Telephone VoIP Adapter - Centrex

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.

Transparent migration to IP telephony.

Leverages existing infrastructure.

Little or no end user retraining.

Dramatic cost savings over “rip and replace”.

Devices can be situated at customer premises or at the Central Office.

Overview

Carriers migrate their customers 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.

The Citel Portico™ Telephone VoIP Adapter (TVA™) changes the dynamics of VoIP migration for carriers by enabling enterprises to obtain all the benefits of IP telephony utilizing the P-phones and wiring infrastructure already in place. When carriers migrate their Centrex customers to a hosted IP platform, the Portico™ TVA™ simplifies the migration process, and is transparent to end users in most deployments. The TVA™ can be installed at the end user location or in a central office location ensuring the switch over process is completely invisible to the end user. With the Portico™ TVA™, P-phones become new IP endpoints, so replacement simply becomes unnecessary.

The economics of utilizing the Portico™ TVA™ are compelling. Carriers can justify migrating their Centrex customers to IP telephony much sooner due to the cost-savings, productivity enhancements, additional functionality, and converged applications that can be added without physically impacting the end user if the Portico™ TVA™ is installed in the Central Office. After a fast, simple VoIP migration utilizing the Portico™ TVA™, carriers achieve:

- Reduced monthly telecom operating expenses through centralized voice mail, IP network utilization, and the elimination of the DMS100.
- 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

With so much to gain, carriers wishing to provide their customers the benefits of IP telephony and convergence have no reason to wait.

Features

The Citel Portico™ TVA™ is available with either 12 or 24 ports, and easily scale to the number of P-phones on the network. All configurations are equipped with up to two FXO ports, which allow both easy 911 call locating, and survivability in the case of WAN failure.

The latest firmware allows devices to be placed in a Central Office environment or be premise based. Both an AC and DC version are available with line lengths of up to 15,000 feet.

In addition, Portico TVA supports compression standards G.729AB, G.711 u-law, and G.711 A-law. The carrier can set the compression/co-dec priorities to best suit the available network performance or bandwidth.

Key Benefits

Cost Savings
Migration costs with Portico TVA are \$50 - \$250 less *per port* than “rip and replace” deployments.

In addition, hosted IP PBX platforms 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
The Portico™ TVA™ can easily scale as more Centrex customers on the same DMS100 are converted to hosted IP. Simply utilizing an available port or, when capacity is reached, adding another Portico™ TVA™ unit.

Devices can be located on premise or at the Central office location depending upon the type of service arrangement. All units can be controlled centrally and with the use of the Multiple TVA Editor tool multiple units can be configured at the same time.

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 DMS100, or updated with the latest VoIP features delivered by the hosted IP service.

Technical Specifications – Portico™ Telephone VoIP Adapter (TVA™) - Centrex

Description

SIP-enabling P phone (Centrex) terminal adapter

Capacity

12 or 24 port

Supported Handset Models

Portico™ TVA™ - Centrex supports Nortel P-phones and all analog handsets

IP PBX Interoperability

Portico™ TVA™ interoperates with leading IP call control platforms, including:

- Asterisk
- Avaya Aura, IP Office
- BroadSoft
- Cisco Unified Communications Manager (CUCM) 5.1 or later
- MetaSwitch
- Mitel 3300
- Tadiran CSS / Aeonix
- 3CX

Interfaces

10/100 Base-T Ethernet
RS-232 standard serial port
RJ-11 FXO Analog (2)
24 x Centrex / analog Interfaces on RJ-21 (Amphenol)
Loop Length: 15,000 feet

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 1¼" (432mm x 271mm x 44mm)
Weight: 7.1 lbs (3.3 kg)

Warranty

One-year limited warranty for parts & labor.

Power

Internal, universal auto ranging
Line voltage: AC 100-127/200-240V
Frequency: 50-60 Hz
Line Voltage: DC 48V
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

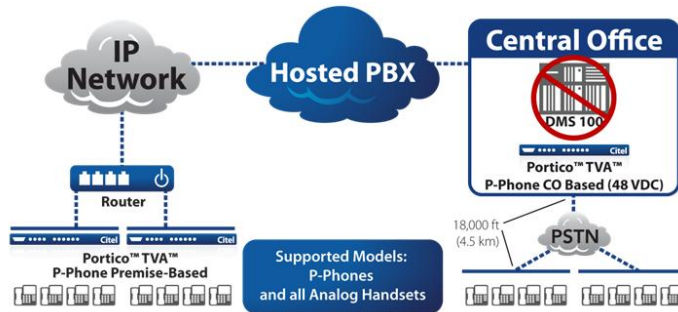
EU Telecom Testing
TBR21
TR 103 000-1 (ATAAB Notes)
Safety

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

Sample Network Configuration



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