## Benefits and Features

- 2 independent phone lines (FXS) + 1 FXO or Lifeline connection

- 4 10/100BaseTX LAN ports

- 1 10/100BaseTX WAN port (xDSL/cable modem, wireless, PC, etc.)

- Superior voice quality using various QoS mechanisms

- Allows incoming/originating calls over VoIP and PSTN lines via one phone

- Embedded router eliminates home router

- Supports alarm systems and TiVo

- Firewall and DMZ

- T.38 and G.711 fax over IP support

- Advanced calling features: 3-way calling, distinctive ring, attended/unattended forward, and many more

- Supports SIP or MGCP

- DHCP server client and relay

- NAT server to enable connection of phones and PC while using one IP address

- Voice activity detection (VAD) saves bandwidth

- Complex CODEC schemes simultaneously on both ports

- Integrated web server for easy provisioning

- Auto provisioning and automatic configuration with TFTP and HTTP to aid large installations

# Access241-FXO
# VoIP Analog Telephone Adaptor



Access241-FXO, VoIP analog telephone adaptor, enables service providers to deliver high-quality VoIP service that uses traditional analog telephones and fax machines to their residential and small office home office (SOHO) customers.  It is a cost-efficient means for service providers to migrate their customers' traditional analog telephones and fax machines onto IP-based networks. Access241-FXO reduces subscribers' costs and simplifies installation by including an embedded router and 4 LAN ports, thus eliminating the need for an external router and or switch. It also reduces service providers' costs because it's remotely manageable for software upgrades and troubleshooting.

Each Access241-FXO has two analog voice lines (FXS) that support independent telephone numbers plus one FXO or 1 Lifeline. FXO functionality enables end-users to accept calls via either their VoIP or PSTN lines on a single phone, by utilizing call waiting and dial plans. In addition, the FXO feature enables enhanced dial plan functionality, allowing the user to route directly to the PSTN line when needed, for example dialing 911 calls.

Unlike other devices, it extends the benefits of variable voice compression technology to both phone ports providing the ability to deliver high quality voice even when bandwidth is limited. The voice ports interface directly with any analog telephone or fax machine.   Access241-FXO is equipped with four 10/100BaseTX Ethernet LAN ports that can be connected to multiple computers or other peripherals in home-network and one 10/100BaseTX WAN uplink for direct connectivity to a xDSL or cable modem, wireless access device, or within an Ethernet network.

# Specifications

## VoIP Protocols
SIP (RFC 2543, RFC 3261)
MGCP (RFC 2705, NCS)*
ITU H.323*

## Voice CODECs
ITU G.711 (u-law, A-law)
ITU G.723.1
ITU G.726
ITU G.729A/B
T.38 fax relay (SIP)
Automatic fax/modem detection
Voice Activity Detection (VAD)
Comfort Noise Generation (CNG)
Caller ID
5 REN distance dependent)
RTP voice packet encapsulation

## Routing and Provisioning
PPPoE (RFC 2516), PPTP
Dynamic Host Configuration Protocol (DHCP) server (RFC 2131), client (RFC 2131), and relay
Network Address Translation (NAT)
RFC 2068 HTTP
Static and dynamic IP address assignment

## Quality of Service
VLAN tagging IEEE 802.1q
Voice priority over data IEEE 802.1p
IEEE 802.3
Traffic shaping using bandwidth limitation per port
L3 TOS marking

## WAN Interface
10/100BaseTX auto sending (IEEE 802.3u)
Connector        RJ-45
Transmission       Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable

## LAN Interface
10/100BaseTX auto sending (IEEE 802.3u)
Connector        RJ-45
Transmission       Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable

## LAN Cabling
10BaseT          UTP, Cat. 3, 4, 5 100m.
100BaseTX        UTP, Cat. 5 100m

## Telephony Interface
Analog Connector   RJ-11 (POTS)

## Management
Internet          Web-based management
Interfaces        Web, remote auto configuration
                  via TFTP/HTTP, Telnet
IP Configuration   DHCP or static
SW Download    TFTP/HTTP, secure, reliable mechanism
Syslog

## Indicators
Management        Green flashing (CPU traffic)
Voice             Green (softswitch registration)
Ready             Green flashing
Power             Green
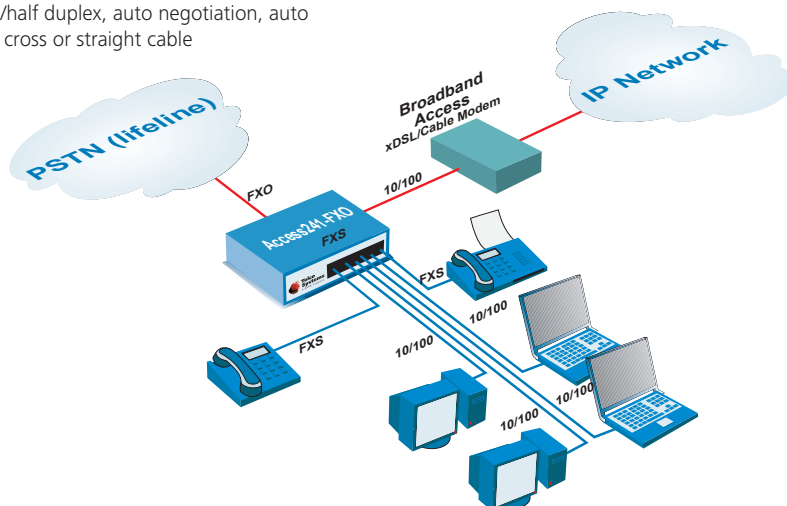Activity/Link     Green flashing

## Security
Passwords, Encrypted configuration file, Access Lists

## General
Dimensions        (H) 1.77" (L) 7.36" (W) 4.72"
                  45mm (H) x 120mm (W) x 187mm (D)
Power             120 VAC external power supply
Weight            0.6 kg (1.32 lb)
Operating Temperature 0° ~ 40° C (32° - 100° F)
Operating Humidity   10% - 90% non-condensing

## Emission and Safety Regulations
EMI               FCC Part 15 Class B, FCC Part 68,
                  EN55022 Class B
Safety            UL 1950,CSA 22.2 No. 950, EN60950
Immunity          EN50082-1

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