

Benefits and Features

- ❖ 2 independent phone lines (FXS)
- ❖ 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 line via any standard phone
- ❖ Embedded router (eliminates additional home router)
- ❖ Firewall and DMZ
- ❖ Supports alarm systems and TiVo
- ❖ 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 VoIP Analog Telephone Adaptor



Access241, 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 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 has two analog voice lines (FXS) that support independent telephone numbers.

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 standard analog telephone or fax machine.

Access241 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
DHCP or static
IP Configuration TFTP/HTTP, secure, reliable mechanism
SW Download Syslog

Indicators

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

Security

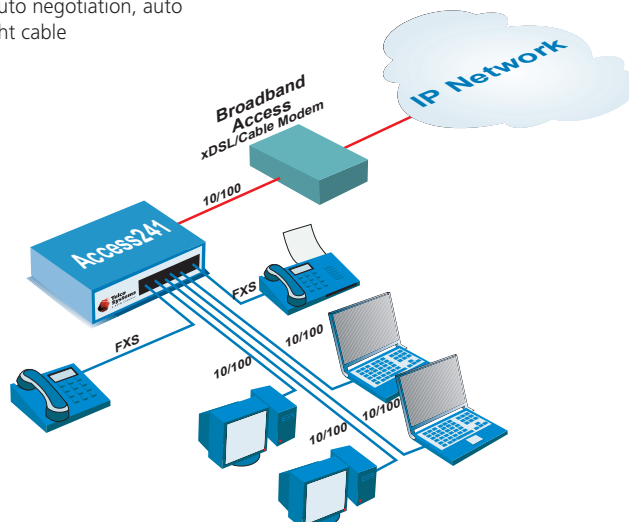
Passwords, Encrypted configuration file, Access Lists

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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