

BlueBox⁴⁰⁰

Expand Your Network Proven, Adaptable, Secure VoIP



BlueBox Universal Access Device (UAD) provides a uniquely flexible, cost-effective device, that enables secure, integrated Voice over Internet Protocol (VoIP) and data communications anytime, anywhere and with any wired or wireless network. Its' patent pending technology provides unrivaled voice quality and dependability, making VoIP the best solution for optimizing performance.

BlueBox sits on the edge of your network to offer scalable last mile technology to extend deployment options and geographical reach. Consisting of a CPU, hardware, firmware, VoIP application software, it serves as a router, DHCP, Quality of Service (QoS) Manager, Triple DES VPN Client, SIP proxy, SIP enabled firewall/NAT and analog gateway – all in one lightweight unit. To accommodate demands for mobility, BlueBox also acts as a wireless access point, allowing you to easily connect phones, fax machines and laptops or create a converged wireless network infrastructure.

ADVANTAGES

Superior Voice Quality and Services

BlueBox achieves toll quality voice through QoS best practices and patent-pending technologies including jitter buffer, echo cancellation, silence suppression, comfort noise generator and TOS Bit for QoS. The end result: Secure and superior voice quality that is unmatched in the industry. BlueBox also provides popular centrex features such Caller ID and Call Waiting and interfaces with most Voice Mail applications.

Integrated Security

BlueBox offers dual security protection with both a firewall and triple DES IPsec encryption. This UAD-to-UAD encryption provides an enhanced layer of security on top of the industry's standard WEP (Wired Equivalent Privacy) for wireless communications, which has been proven vulnerable to sophisticated hackers. For stringent government demands for security, VoiceWise can be integrated with NSA certified Type-1 Secure wireless cards.

Simple Set-Up and Use

The Edge Access UAD is easily set up and configured in only ten minutes using a standard telephone. And, once it is set up, the UAD can be configured and managed from anywhere via the Internet with a user-friendly, password protected WEB Browser or Telnet session – eliminating the cost of deploying technical resources.

Easily Integrated

BlueBox UAD supports standard VoIP protocols and compression algorithms. It easily integrates with any manufacturers' technology, provided they adhere to the same standards and compression algorithms.

Adaptable

Universal Broadband Connectivity

The unique universal WAN is a plug and play interface that can connect with any broadband network, including Ethernet, xDSL, Cable Modem, T1/E1, Wireless or dial-up, where competitive products typically offer connectivity to just T1/E1 or DSL. This feature is enabled by a special mechanism boot process designed to probe the interface card on power-up and dynamically load the appropriate corresponding drivers. This flexibility accommodates new and legacy technologies from a variety of manufacturers making it easily re-configurable and reducing lifecycle costs.

Flexible Port Configuration

The telephony interface module includes four FXS ports for connecting analog telephones, fax, dial-up modems from a PC or laptops for internal communications via an internal VoIP network. On the LAN side, it can accommodate a 10/100 Base-T Ethernet connectivity or can incorporate an optional 4-port hub.

Enhanced Routing Options

With the several optional SIP-enabled router capabilities available, Firewall, DHCP, Proxy Server, and NAT (Network Address Translation), service providers can have multiple computers routing traffic to a single UAD while still being able to manage outside access to each computer using one network address, and can prioritize voice over data.

TECHNICAL SPECIFICATIONS

Taken together, the unique features of the compact, lightweight BlueBox UAD provides an interoperable, adaptable, re-configurable, easy-to-use and highly deployable solution in one unit that is cost-effective when compared to other multi-unit solutions.

Voice Quality

- Provides Toll quality calls through a combination of DSP and host-based voice processing
- DTMF generation/detection meets Bellcore TR-TSY-00673 and TIA 464B standards
- Echo Cancellation algorithm G.168/G.165 supported
- Voice Activity Detector
- Comfort Noise Generator

Compression Methods

- G.729 CS - ACELP codec @ 8 kbps
- G.723.1 MP-MLQ codec @ either 5.3 or 6.3 kbps
- G.726 / G.727 ADPCM and E-ADPCM codecs
- G.711 PCM

Telephony Interfaces

- 4 FXS Ports

Wireless

- Access point/client
- 802.11 a, b, g
- WEP encryption

Router Options

- Firewall
- DHCP
- Proxy Server
- NAT (Network Address Translation)

Router Interfaces

- T1/E1
- xDSL
- Cable Modem
- 10/100 Base T Ethernet compatible with IEEE 802.3u standard
- Wireless (both 802.11a & b)

Configuration Management

- Equipped with remote provisioning tools accessible through a WEB interface or a telnet session
- SNMP compliant (2003)

Protocol Support

- MGCP (Media Gateway Control Protocol)
- H.323
- SIP

Centrex Features

- Call Forwarding, Caller ID, Call Waiting, Call Blocking,
- Conference Calling, Voice Mail, Stutter Dial tone,
- Distinctive Ringing, Flash-Hook

Other Features

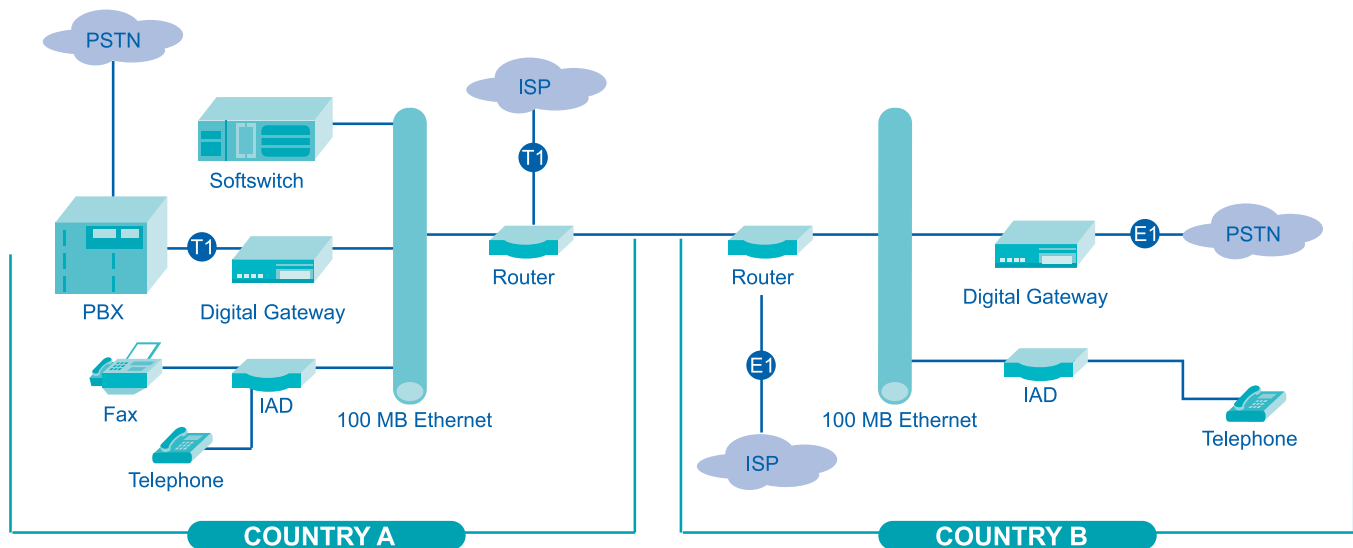
- Group 3 fax, V.29, V.27 and V.33
- Automatic fax/voice switching
- TIA 464A DTMF detection and generation
- Input/Output gain control
- Fax/modem bypass
- Programmable two-wire in/out impedance

Physical & Environmental

- Operating temperature: 0 to 50 degrees C
- Humidity: 80% non-condensing maximum
- Dimensions: 7.5" x 9" x 1.75"
- Power: 100-240VAC (Auto Switching), 50/60HZ, 60 Watts
- 12-15 V DC



Universal Access Device Deployment



About Edge Access

As a technology developer and integrator, Edge Access continues to pioneer advanced VoIP (Voice over Internet Protocol) and data solutions for industry and government. Designed for universal adaptability, Edge Access solutions offer functionality that amplifies performance of virtually any network infrastructure. The company's premier "future-proof" VoiceWise UAD series, gateway and softswitch provide converged voice and data communications with unrivaled security, voice quality and dependability.



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