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- **VoIP Router (IAD) IAD50**
1*WAN (ADSL Build in)+ 4*LAN+WiFi+1*FXO+2*FXS



.. LTD.

Voice features

- ▶ Voice gateway between POTS telephones and VoIP
- ▶ Incoming and outgoing calls can be routed over either the PSTN or VoIP, with PSTN switching for up to two FXS ports
- ▶ Support for SIP protocols
- ▶ Voice processing functions including asymmetric selection of voice codecs (G.711, G.726, G.729ab)
- ▶ Echo cancellation (G.168) – configurable

Wireless LAN 802.11G

LAN Interface:

- ▶ Fully integrated IEEE 802.11g-compliant MAC, baseband, and modem functions
- ▶ Supports 802.11g data rates of up to 54 Mbps with automatic fallback to 48, 36, 24, 18, 12, 9, and 6 Mbps
- ▶ Supports 802.11b data rates of up to 11 Mbps with automatic fallback to 5.5, 2, and 1 Mbps
- ▶ OFDM modulation with full-duplex MAC and half-duplex baseband
- ▶ Multiple radio interfaces
- ▶ Supports 64 and 128-bit WEP, WPA, and 802.1x

ADSL2+ Subsystem

The ADSL subsystem handles all the physical aspects of the ADSL, including line coding, error correction, and interfacing with the 2- or 4-wire local loop. The ADSL subsystem includes the following features:

- ▶ Supports fast and interleave latency
- ▶ Supports the following types of line coding:
DMT: T1.413, G.992.1, G.992.2, G.992.3, G.992.5 with auto-detection



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➤ VoIP Router (IAD) IAD50

Bridging/Routing Functionality

- ▶ Up to 64 hosts
- ▶ Transparent bridging as specified in IEEE 802.1D
- ▶ Network Address Translation (NAT) SNMP, ICMP, H.323, L2TP, Quake, MRC, ICQ, and CUSeeMe
- ▶ Dynamic IP address allocation is supported through:
 - ▶ Point-to-Point Protocol (PPP)
 - ▶ Routing Information Protocol (RIP) v1 and v2

Supported Client/Server Applications

- ▶ FTP and TFTP client/server
- ▶ DHCP client and server
- ▶ Telnet server
- ▶ HTTP server
- ▶ RADIUS client

Network Management

- ▶ DSL Forum TR37-compliant autoconfiguration using ILMI to set up access protocols (e.g., PPPoE, PPPoA) and other settings
- ▶ AutoDetect feature enabling automatic configuration of VCI/VPI values
- ▶ SNMP agent and tools
- ▶ CLI (Command Line Interface) via serial interface or Telnet over Ethernet or DSL
- ▶ Web-based Graphical User Interface (GUI) enabling end-user device configuration via HTTP
- ▶ Update of boot image or configuration data over TFTP/FTP

Security

- ▶ Firewall
- ▶ Network Address Translation (NAT):
 - ▶ PAP/CHAP authentication on PPP connections
 - ▶ Embedded Firewall
 - ▶ User-configurable IP- and MAC-level packet filtering to accept/deny packets based on layer 3 or layer 2 rules.

VPN (under developing)

- ▶ Virtual private network solution via an embedded encryption engine
- ▶ Point to-point tunneling protocol (PPTP)
- ▶ Layer 2 tunneling protocol (L2TP).

IAD APPLICATION

