

AH4121BT

Wireless Home Hub

(ADSL + VoIP + WLAN + Bluetooth)



- Support ANSI T1.413 Issue 2, ITU-T G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL 2) and G.992.5 (ADSL 2+)
- Support SIP/MGCP Call Signaling Protocols
- Support G.711, G.726, G.729A (optional), G.723.1 (optional)
- Voice Activity Detection (optional)
- G.168 Echo cancellation
- DTMF detection and generation
- Browser-based configuration environment
- DHCP automatically assigns and manages LAN IP addresses
- Firmware upgrade available by TFTP/FTP/HTTP
- Compliant with IEEE 802.11b / 802.11g standard
- Compliant with Bluetooth V1.2 specification (AH4121BT only)
- Support UMA specification V1.0 (Future Support)

AH4121 : ADSL + VoIP + WLAN

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AH4121BT, ADSL/VoIP/WLAN "3 in 1" + Bluetooth "4 in 1" Residential Gateway provides cost-effective telephony and high-speed Internet access with wireless mobility.

With AH4121BT, small businesses and home offices now can experience quality voice over IP (VoIP) services and high-speed data connection with the most economical price/performance Wireless/Wired broadband access solution.

The AH4121BT is designed for simple installation and easy remote network management. User can configure and operate easily.



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Specifications

ADSL Compliance

- Support ANSI T1.413 Issue 2, ITU-T G.992.1 (G.DMT), G.992.2 (G.Lite) G.992.3 (ADSL 2), and G.992.5 (ADSL 2+) ATM protocols
- Multiple protocol over AAL5 (RFC2684)
- Support ATM cell format ITU - T I.361
- ATM Forum UNI 3.1/4.0 PVC
- Support up to 8 PVCs - traffic shaping (CBR,UBR,VBR)
- OAM F4 & F5

PPP Support

- PPPoA (RFC 2364)
- PPPoE (RFC 2516)

Bridging

- Ethernet to ADSL self-learning. Transparent Bridging (IEEE802.1d)
- Filtering functions - MAC address filtering and protocol filtering for up-link

Router Features

- RIP-1 and RIP-2
- Static routing
- NAT with ALGs
- DHCP Server/Relay/Client
- DNS Relay
- NAT/NAPT
- IGMP Proxy

VoIP Functions

- Support SIP/MGCP
- Voice codec: G.711, G.726, G.729A (Optional), G.723.1 (optional)
- G.168 Echo Cancellation
- Support G3 facsimile
- Support ITU-T T.38 standard (optional)
- Support call hold, call waiting, call forwarding, caller ID, call progress tone, call transfer, call conference

Radio - WLAN

- Standard: IEEE 802.11g and 802.11b
- Media Access Control: CSMA/CA with ACK
- Modulation: OFDM /CCK
- Frequency Range (Range depends on different country):
- Output Power: 15 dBm (typical)
- Sensitivity: -85 dBm (typical)
- Data Rate: 54, 48, 36, 24, 18, 12, 11, 6, 5.5, 2, 1Mbps, auto-fallback

Radio - Bluetooth (Available for AH4121BT only)

- Standard: Bluetooth SIG Spec V1.2
- Sensitivity: -85 dBm (typical)
- Data Rate: 1 Mbps
- Out Power: 17 dBm (typical)
- Profile: PAN, CTP

Security

- Password protected system management
- User authentication for PPP (PAP/CHAP)
- Packet Filtering
- SSH
- Access Control List
- Wireless Security: Support WEP (64,128 bit)

QoS

- ATM: CBR, rt-VBR, nrt-VBR
- IP: IPToS function (RFC 1349), supports priority queues for upstream and downstream traffic based on ToS field

Configuration Management

- LAN/WAN management via Telnet interface or Web-based browser interface
- SNMP MIB 2 management (RFC 1213)
- Firmware upgrade available by TFTP/ FTP / HTTP
- Status display and event report from Web-based management

Physical Interfaces

- One Asymmetrical Digital Subscriber Line (ADSL) interface (RJ-11) with PSTN Backup (FXO)
- One USB port (Client)
- Four 10/100BaseT Ethernet port (RJ-45)
- Two Telephone interfaces (RJ-11) (FXS)
- Antenna: Two External

Power Requirement

- AC input voltage: 110/220 VAC
- Frequency: 50/60 Hz

Operating Environment

- Temperature: 0 ~40 °C
- Humidity: 10 to 90%, non- condensing

Physical Specification

- Dimension: 160.6 (W) x 244.1 (L) x 34.6 (H) mm