

## 2 VoIP Port Wireless ADSL2+ IPTV Gateway

### 2 FXS | 1 FXO | 4 Ethernet | 802.11b/g USB Plug&Share\*

- 1 Line (FXO) PSTN, 2 Telephones (FXS) Ports
- PSTN Life-line Support
- 54 Mbps 802.11g Wireless
- Air Touch\*: Simple setup button to securely connect
- WPS supported devices.
- ADSL2+ (24Mbps / 4 Mbps)
- 4 Ethernet (1 Port configurable as WAN Ethernet), USB 2.0 Host Plug&Share ports (File and Printer Sharing Support)\*
- CPE WAN Management Protocol (TR-069, TR-098, TR-111\*, TR-104)
- CPE LAN Management Protocol (TR-064\*)
- Two simultaneous VoIP calls
- No PC required for VoIP calls
- Reliable Audio Quality (QoS)
- IPTV Support
- Call Features (CLIP/CLIR, Call Waiting, 3-way Conferencing)
- VLAN functionality (802.1Q)
- Universal Plug&Play (UPnP IGD)
- VPN pass-through (PPTP, L2TP, GRE, IPSec)
- AutoMesh\* Technology
- Advanced security with Statefull Packet Inspection
- Firewall and DoS protection
- Multi-language WebUI (English and Turkish)
- ADSL Usage Monitor
- Robust against wide voltage fluctuations
- AirTies Easy Setup CD (with animated instructions)
- Auto Firmware Update
- 3 years warranty
- 24x7 technical support

### Make two simultaneous VoIP calls and start enjoying discounted calls.

#### ADSL2+ VoIP Gateway, Firewall, 1 Line (FxO), 2 FXS, 1 USB 2.0 Plug&Share\*, 4 Ethernet, Wireless Access Point , Router

Wav-275v2 is an all-in-one solution that can fulfill all your voice and data needs. You can use it to access the Internet over your ADSL line, to set up your local wireless network and to make phone calls over the Internet using a VoIP service provider.

**Media Centre/Single Control Point:** USB 2.0 Host port allows users to attach an external disk drive\* or printer and share it on the network without having to dedicate a computer for this function.

**Remote Management:** Auto-provisioning of LAN, WAN and VoIP setting via CWMP (TR-069, TR-098, TR-111\*, TR-104, TR-064) support. Also supports, Web, Remote Management Telnet and legacy provisioning (FTP/TFTP/SFTP/HTTP).

**IPTV Support:** WAV-275v2 possesses all the features needed for an IPTV application. It supports up to 8 ATM PVCs to be able to separate IPTV, VoIP and data traffic. For cases where a single PVC is used for more than one type of service, the IPQoS feature can be used to prioritize packets and reserve bandwidth based on traffic type.

The WAV-275v2 recognizes the IPTV devices connected to it no matter which Ethernet port they use and automatically forwards that port to the PVC reserved for IPTV traffic. Thus, service is uninterrupted even if the user changes the port the IPTV device is attached to. The WAV-275v2 can support IPTV service in both router and bridge modes. It can transfer various DHCP options necessary for the initial configuration of IPTV devices from the provider network's DHCP to the IPTV device.

The WAV-275v2 supports IGMP v1 and v2, thus sending a single request to the service provider even when more than one IPTV device requests the same channel. With the IGMP snooping feature, the incoming broadcast from the service provider is delivered only to the port that has the IPTV device that requested that channel and not to other ports.

The WAV-275v2 supports the TR-111 management protocol\*. If the IPTV devices connected to the WAV-275v2 support the TR-135 management protocol, the WAV-275v2 permits remote management of those devices.

**Expand your wireless coverage area with AirTies Mesh Technology:** Set and sustain wireless links between APS and extend your range.

**AirTies Easy installation and administration:** insert the installation CD and follow the animated on-screen instructions

**ADSL Usage Monitor** shows total download and upload amounts on a monthly basis.

\*will be available with firmware upgrade soon.



## Specifications

### Main Features

- Modem: ADSL2+ gateway (24Mbps download/ 4Mbps upload) optimized for your local ADSL service provider
- Router: DHCP server, DDNS, NAT, NAPT, Static router, VPN pass-through, 802.1Q VLAN
- Firewall: Advanced Anti-DoS SPI Firewall;URL\*, IP and MAC address based filtering.
- Wireless communication at 54Mbps 802.11g; 54Mbps speed wireless Access point backward compatible with 11 Mbps 802.11b.
- AirTies Mesh Technology: Possibility to expand the wireless coverage area with AirTies products.
- Wireless security: WPA, WPA2-AES, 64/128 bit WEP, 802.1x standards
- Air Touch\*: Simple setup button to securely connect WPS supported devices.
- VLAN support: Virtual LANs can be setup using Ethernet 1-4 and wireless.
- IP QoS support (ToS / Diffser): 4 service class definition
- Easy setup and management: Universal Plug and Play (UPnP), AirTies Easy Setup CD (for both ADSL and VoIP; with animated instructions), user-friendly
- Utility Program and User Manual
- Easy Update: Firmware (software) upgrades via the Advanced Settings Web interface.
- Remote Management: TR-069, TR-098, TR-104, TR-111\*, TR-064\* Web, Telnet
- Multi-language WebUI support: English and Turkish
- 24x7 technical support by highly trained AirTies support team and backed up by the AirTies R&D team
- 3 years extended warranty

### VoIP Features

- Life-line Support: Automatic swich over to FXO-line (PSTN backup) during power or ADSL connection loss or when SIP server is unreachable
- Call Features: Caller ID (CLIP), Calling Line Identification Restriction (CLIR), Call Waiting\*, 3-way conferencing\*
- SIP (RFC 3261/3264)
- RTP (RFC 3550)
- G711, G.729AB codec support
- Automatic prioritization of audio packets and high audio quality
- Call History
- Two SIP Account Support
- Incoming Call divert options
- Echo cancellation
- Dial plan Options
- PSTN perception and transfer to SIP
- DTMF Relay: RFC2833 ve SIP INFO support
- G.711 fax pass-through
- T.38 IP fax protocol support
- PSTN Fax support – T.30
- Different dial and confirmation-tones when making VoIP calls

### IPTV Features

- 8 ATM PVC channel support
- VLAN Support (802.1Q)
- PVC-Port and PVC-SSID mapping feature
- IGMP Proxy support (v1 ve v2)
- IGMP Snooping feature\*
- ATM QoS (UBE,CBR,VBR-rt,VBR-nrt)
- Feature to obtain the required DHCP options from WAN and transmit to the STBs\*
- Differentiating the incoming service at a port and automatic port-PVC assignment based on service type.\*
- TR-111 support\*

### Technical Properties

- **ADSL Properties:** G.992.1 Annex A & ANSI T1.413 Issue2 (G.DMT), G.992.2 (G.Lite), G.992.3 ADSL2 (G.dmt.bis), G992.4 (G.Lite.bis), G.992.5 (ADSL2+), RADSL (Rate Adaptive DSL), READSL,SIP (RFC 3261/3264)
- **Connection Protocols:** PPPoE, PPPoA, RFC1483 Encapsulation (IP Bridging, ve encapsulated routing), RFC2364 PPP over AAL5, classical IP over RFC1577 ATM, ATM QoS, OAM (I.610), RFC2366 multicast over ATM.
- **Frequency interval:** ETSI 2400 MHz(min)- 2483.5 MHz(max) (13 channels with 3 not overlapping)
- **Antenna power:** 20 dBm EIRP
- **Wireless security specifications:** WPA (802.1x, TKIP, PSK) ; WPA2 (AES); 64/128 bit WEP, wireless MAC address filtering, SSID hiding
- **LEDs:** Power , ADSL, INTERNET, LAN1-4, WLAN ,USB,Phone1, Phone2, LINE
- **Ports:** 1 ADSL (RJ-11), 1-4 Ethernet (RJ45), USB, Power, 1 FXO (PSTN backup, RJ-11), 2 FXS (telephone device or PBX, RJ-11)
- **Reset button** to return to factory settings for ADSL or voip
- **WLAN ON/OFF (AirTouch\*)** button for simple setup and secure connection with WPS supported wireless devices \*
- **On/Off** button.
- **UPnP :** Universal Plug & Play Internet Gateway Device
- **Router and Firewall:** Anti-DoS SPI firewall; URL\*, IP and MAC address filtering; Port forwarding; DMZ; VPN pass through (PPTP, L2TP, IPSec); Static and dynamic (RIPv1/v2) routing; DNS Proxy; DHCP server and client; NAT/NAPT; User Authentication (PAP/CHAP/MSCHAP) with PPP; up to 1024 NAT sessions, 802.1d (self-learnig transparent bridging), CoS (802.1P), 802.1Q VLAN
- Compatible with Windows 98, ME, 2000, 2003, XP, Vista, Linux, MAC OS
- **Class 2 device**
- **Certificates and Standarts:** CE

### Physical Characteristics

- **Dimensions:** 235mm x 156mm x 25mm
- **Weight:** 450g
- **Power:** 15V DC, 1.25 A
- **Adapter operating voltage:** 100V ile 240V AC arası
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Operating Humidity:** %10 ~ %90

### Minimum System Requirements

- ADSL service on your phone line must be activated and working properly,
- For wired use: a computer with an Ethernet adapter that supports the TCP/IP
- For wireless use: 802.11b or 802.11g wireless adapter or computer with wireless capabilities,
- For the webUI Access and setup: Any versions of Linux or Mac operating systems,
- For the AirTies Utility Program: 32-bit Windows 98 / ME / 2000 / 2003/XP or Vista operating systems,
- The device does not need to be connect to a PC during normal operation.

\* will be available firmware upgrade soon.

