300 Mbps 2.4/5GHz Dual Band Wireless ADSL2+ Router

N-hance your life with high speed wireless connectivity in every corner while viewing your digital music, videos and photos on your TV

- Air 5452 is offering **802.11n** high-speed wireless solutions that can provide ultra reliability, predictable bandwidth and unprecedented high speed performance for **real-time video distribution** in the home.

- Complete **push-button wireless network set up** and configuration. Simply pushing the "**AirTouch**" button on Air 5452 is all that needed to configure the device on the wireless network and enable security.

- Air 5452 is capable of providing **3 HD video simultaneously**.

- With its ADSL2+, Access Point and Router functionality, the Air 5452 provides wireless Internet access over ADSL lines or Ethernet WAN interfaces. Air 5452 uses dual band 802.11n technology providing wireless data transfer rates of up to 300 Mbps. Thus, you can transfer data, watch videos or upload your pictures to the Internet at "**N-speed**"

- **Media Centre/Single Control Point: USB Plug&Share** feature allows users to attach an external disk drive and/or printer and share it on the network without having to dedicate a computer for this function.

- **Media Server:** AirTies **UPNP AV / DLNA** compliant Media Server feature allows you to attach an external disk drive to your AirTies device and share it on the network. Air 5452 can wirelessly stream the media, movies, photos, music on the attached disc using to TVs and players capable of displaying it. With specialized wireless video streaming technology at 5GHz Band, Air 5452 is perfect for wirelessly watching HD movies.

- Providing 6 times faster wireless communications compared to earlier technologies, and 4 times greater wireless range through use of MIMO technology, Air 5452 has been developed to meet all your wireless needs.
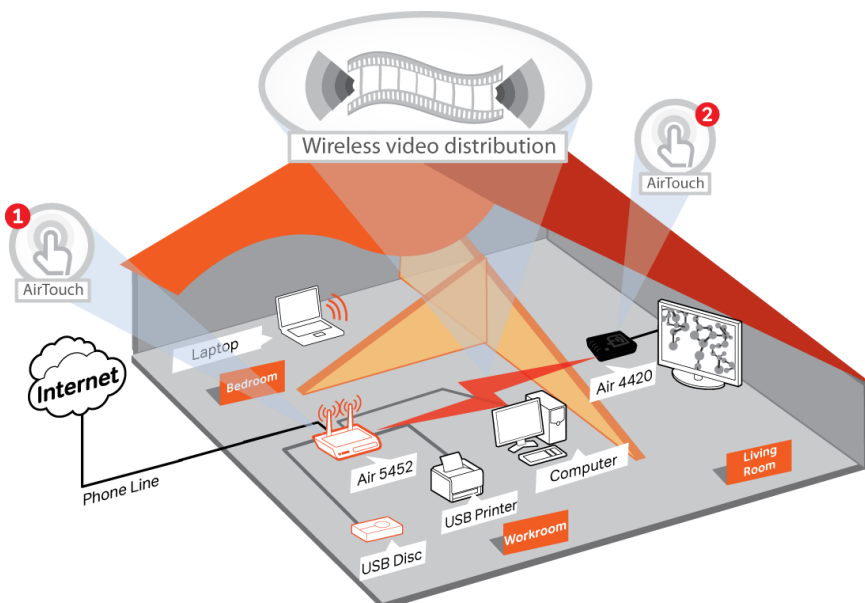
Share media throughout your home

With Air 5452 which uses 802.11n technology, transfer wireless data, watch videos or upload your pictures to the Internet at speeds of up to 300Mbps. Backward compatible with the wireless 802.11b/g devices, the Air 5452 provides 6 times faster wireless communications compared to earlier technologies. Dead spots and packet losses on your wireless network becomes a thing of the past with the MIMO (Multiple Input Multiple Output) technology and the advanced error recovery system contained in the 802.11n standard.
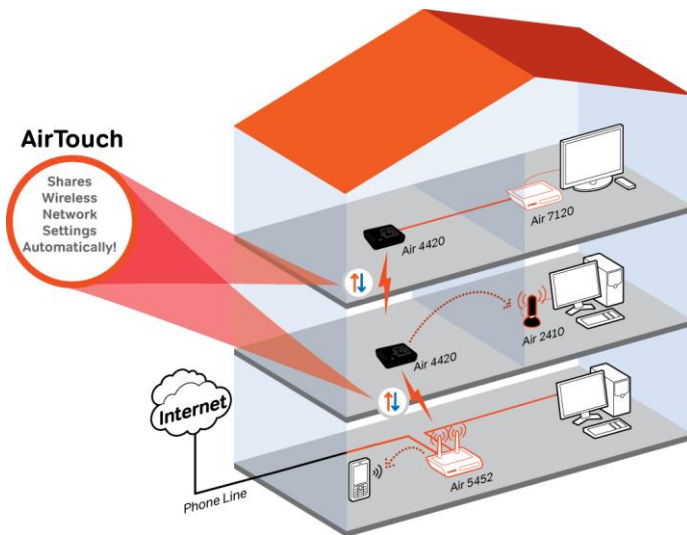
Media Server

N-joy HD movies, music, and photos on your TV wirelessly: AirTies wireless video solutions (including wireless settop boxes) use standards based Wi-Fi networks to deliver reliable HD-quality video streams throughout the entire home. Providing quality of service in wireless video transmission presents an enormous challenge though with numerous interference and performance limitations inside the home.

High Wireless Performance for rich content transmission

AirTies follows the IEEE 802.11e standard to prioritize packets. Real-time video packets are tagged enabling routers to give priority to the content of such packets. However, prioritization by itself is not sufficient to solve the real-time video quality problem. AirTies also employs their own patented channel selection methods to use the best channel for video transmission which helps avoid interference problems. The Air 5452 starts by using the clearest available channel when it first comes up. From that point on, all other channels are periodically sampled for quality. The information gathered on the other channels helps decide which channel to switch to when the channel currently being used can no longer support real-time video transmission. All this process is completed without any interruptions that are visible to the user.
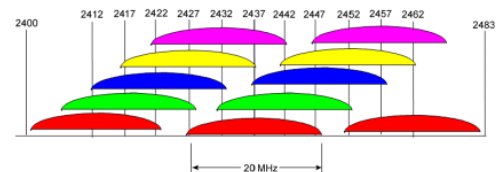

Wireless video distribution

AirTouch

Shares Wireless Network Settings Automatically!

Air 7120
Air 4420
Air 2410
Air 4420
Internet
Air 5452
Phone Line

Install Your Wireless Network with One Button Touch

- **AirTouch Enables Advanced Wireless Network Security:** Setting up wireless security may be extremely cumbersome for many users who are unfamiliar with it. There are various security protocols, such as WEP, WPA and WPA2, and many users are unaware of these protocols. AirTouch enables all these complicated settings to be determined simply and automatically. AirTouch eliminates lengthy setting procedures for top-level security by simplifying all step to one click of the "AirTouch" button on the device. AirTouch technology automatically defines the highest security settings in the background.

- **It Extends the Wireless Range**: AirTouch makes it possible to build a Mesh Network and expand the wireless network. You can add new Access Points to your wireless network to expand its limits by means of AirTouch – without requiring specialist assistance. For all these settings, all you need is to click on the "AirTouch" button of each wireless access point. You can easily add repeater access points to your wireless network and expand it as far as you wish.

- **Facilitates Wireless Network Management**: With AirTouch, certain modifications you make to your computer network are automatically shared over the wireless access points. This feature removes the hassle of adjusting each access point one-by-one when you want to change the wireless network password for the whole Mesh Network. The change you make to one wireless access point is automatically communicated to all the other wireless points. Managing a wireless network with AirTouch is just so easy!

5 GHz Video Distribution

Most wireless routers operate at 2.4GHz which has only 3 non-overlapping channels. This leads to congestion which reduces wireless performance significantly. However, 5 GHz support provides 22 channels for interference free, high speed 300Mbps wireless networking, allowing you to watch High Definition video, listen to music or view photos at high speeds. In addition, AirTies Dynamic Channel Change technology always picks the best available channel and continually monitors for the best channel. Ideal for wireless video or Web TV viewing.

In the area of **wireless video transmissio**n, Air 5452 getting ready to achieve many firsts in the world. In those environments where concrete walls are in the way and where the frequencies in which wireless transmission takes place is full, the AirTies Air 5452 does what is almost impossible and provide uninterrupted communications at **5GHz** to transfer video/IPTV packets. With the smart frequency selection feature, Air 5452 selects the most suitable frequency for itself, and with the QoS (Quality of Service) feature that gives high priority to video packets, Air 5452 ends the clutter of cables in your house.

Properties

Main Features

- **All-in-one solution:** ADSL2+ Router**, 300Mbps dual band** wireless access point, Firewall, 4 Ethernet ports (1 port can be used as Ethernet WAN)
- **"N-Speed" solution to getting past concrete walls with a high speed wireless connection: 300 Mbps dual band** wireless access point compliant with the **802.11n** standard
- **ADSL2+** technology for high speed Internet (24Mbps download/ 4Mbps upload)
- **Ethernet WAN support:** 1 of the 4 Ethernet ports can be configured as WAN port.
- **3G WAN* and back up*** support via the USB Host ports with supported sticks.
- **PPTP VPN server*** allows accessing and sharing the contents of the disks / printers attached to the USB Host ports.
- **Extending Wireless Coverage at the Touch of a Button - AirTouch:** Support to setup the **wireless network settings easily**, **securely** and **automatically** by pressing a single button on the device.
- **Wireless Access range and Mesh Technology:** AirTies Mesh Technology support for extending coverage area by using additional AirTies wireless access point devices.
- **Backward compatible:** Compatible with 802.11a/b/g wireless standards
- **MSSID** (Multi SSID) Multiple SSIDs can be created to allow different users access to the Internet / network
- **IPTV-ready!!!:** The Air 5452, with its IP QoS, VLAN (802.1Q), PVC-Port mapping and IGMP support, is ready for the newest, state of the art services offered over the Internet such as IPTV
- **USB Plug and Share** feature gives you printer and file sharing capability throughout your entire network from a single point
- **Media Features*:** UPnP A/V Media, Bittorrent.
- **Advanced Wireless Security:** WPA2-PSK, WPA2-802.1x, WPA-PSK, WPA-802.1x, WEP wireless encryption standards support
- **Automatic Wireless Security configuration:** The AirTies Home Network Manager automatically configures wireless security settings for the router and the PC that is used for setup.
- **Firewall:** Advanced anti-DoS SPI Firewall; MAC, URL and IP address based filtering for Internet access
- Easy setup with the animated **Home Network Manager (HNM) Software**: Network Diagram, Device Control, Troubleshooting, Automatic firmware and software upgrade, download / upload counter.
- **Automatic Firmware Upgrade:** Automatic firmware upgrade capability with the Home Network Manager and the modem user interface. It is important to use the latest firmware to get the best possible performance out of your router.
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- **ADSL Usage Monitor:** Especially useful for limited quota ADSL subscribers, making it easy to track monthly total download and upload amounts (Home Network Mamanger)
- **Router:** Advanced router with DHCP server, NAT, NAPT, DMZ, VLAN, RIPv1/v2 support 8 Channel PVC support
- **Robust against voltage fluctuations:** Specially designed to withstand wide voltage fluctuations
- **Remote Management**: Auto-provisioning of LAN, and WAN setting via CWMP (TR-069, TR-098, TR-111*, TR-064*) support. Also supports, Web, Remote Management and Telnet.
- **Multi-language WebUI** support: English and Turkish
- **Uninterrupted Technical Support**: 7/24 AirTies Call Center and Technical Support (engineering support by the AirTies R&D team when needed)
- **3 year extended warranty**
- **Designed to be compatible with your local ADSL infrastructure.**

Technical Properties

- **ADSL properties:** G.992.1 Annex A (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL2), G992.4 (G.Lite.bis), G.992.5 (ADSL2+),Rate Adaptive DSL (RADSL), READSL, Traffic shaping UBR/CBR, OAM (I.610)
- **Connection protocols:** PPPoE, PPPoA, RFC1483 Bridging, RFC1483 Routing, classical IP over ATM, PAP/CHAP, RFC 2364 PPP over AAL5, RFC2366 Multicast over ATM
- **Wireless transmit power:** Max 20 dBm EIRP @ 2.4GHz, Max 23dBm EIRP @5GHz (including antenna gains).
- **Wireless security options:** WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal, WEP (64/128bit), MAC address filtering, SSID hiding
- **Wireless standards:** IEEE 802.1b, 802.11g, 802.11a, 802.11n, 802.11d, 802.11e, 802.11i standards compliant.
- **Wireless communication rates:** 1,2, 5.5, 6, 9, 11, 12, 24, 36, 48, 54, 72, 144, 150, 300
- **Frequency range:** ETSI 2400 MHz - 2483 MHz (13 channels with 3 not overlapping). 5.150-5.250 (UNII1), 5.250-5.350 (UNII2), 5.475-5.725 (Mid Band UNII), 5.725-5.825 (UNII3).
- **Router and Firewall:** Anti-DoS SPI firewall; IP and MAC address filtering; URL filtering; Port forwarding; DMZ; Static Routing, RIPv1, RIPv2 routing; DNS Proxy; DHCP server and client; NAT/NAPT; PPP (PAP/CHAP/MSCHAP), IGMPv1/v2
- **UPnP** (Universal Plug and Play)
- **Reset** button to return the router to factory settings
- **AirTouch Button** for simple setup and secure connection with WPS supported wireless devices
- **Operating voltage:** 100V AC - 240V AC
- **Cabling:** RJ-45 (Ethernet), RJ-11 (ADSL)
- **Ports:** ADSL, Power (12V DC), 4 x 10/100 Ethernet(RJ-45, auto MDI/MDIX), 1xUSB Host
- **LEDs:** Power, Internet, ADSL, Ethernet 1-4, USB, Wireless
- **Mounting**: wall mount or desktop use.
- **Certificates:** CE

Physical Characteristics

- **Dimensions:** 209.5mm x 147.5mm x 33mm
- **Weight:** 336 g
- **Power:** 12Volt DC, 1.0A
- **Operating Voltage:** 100V - 240V AC
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Humidity:** %10 - %90 non-condensing

Minimum System Requirements

- For installation and configuration: a computer that has an Ethernet interface or wireless capability that is compatible with 802.11b/g/n standards, and is running any version of Windows, UNIX, Linux or Mac Operating Systems,
- For the AirTies Home Network Manager: 32 bit Windows (98/ME/2000/XP/Vista/2007)
The router does not need to be connected to a computer during normal operation.

Package Contents

- Air 5452 300Mbps Dual Band Wireless ADSL2+ Router
- Power adapter
- Ethernet cable
- Telephone cables (1 long, 1 short)
- Splitter
- Easy Setup CD
- Quick Installation Guide
- Warranty Card

*Features to be added with a firmware upgrade