

300 Mbps 2.4/5GHz Wireless Media Access Point / Router



Enhance your life with high speed wireless connectivity in every corner of your home

- Air4420 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.
- Air4420 is capable of transmitting **3 HD video simultaneously**.
- With its Access Point and Router functionality, the Air 4420 provides wireless Internet access over ADSL and Cable modems. Air 4420 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 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 and share it's media on the network. Air 4420 can wirelessly stream movies, photos and music on the attached disc to TVs and media players capable of playing it. With specialised wireless video streaming technology at 5GHz band, Air 4420 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 4420 has been developed to meet all of your wireless needs.

AirTies' cutting edge wireless video technology

In the area of wireless video transmission, Air4420 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 are full, the AirTies Air4420 does what is almost impossible and provide uninterrupted communications at 5GHz to transfer video/IPTV packets. With the smart frequency selection feature, Air4420 selects the most suitable frequency for itself, and with the QoS (Quality of Service) feature that gives high priority to video packets, Air4420 makes wireless video streaming in the home a reality.

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

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 its own patented channel selection methods to use the best channel for video transmission which helps avoid interference problems. At 5GHz there are 22 channels of 20MHz spectrum per channel. These are unlicensed and prone to interference. Interference can come from many devices operating in the spectrum including new WiFi devices or a neighbour using wireless video in an apartment. AirTies scans all 22 channels, monitors traffic and noise in each channel and dynamically changes wireless channels to avoid interference. This dynamic wireless channel change process is completed without any visible interruptions.

With **jitter avoidance technology**, video buffers at both the transmitter (AP) and receiver (STB) manage which packets have been actually received and retransmit lost ones while maintaining packet ordering critical to video. Jitter avoidance technology time stamps each packet and ensures video arrives at a competitors STB as if it was a wired Ethernet connection with a small delay.

Air 4420



USB DISC



TV



TV



300 Mbps Wireless HD Media Bridge Solution



Wirelessly stream data to your TV, set top box or games console

- A high speed wireless bridge can be created to enable connected devices in the home that have only an Ethernet port, such as Internet TVs, set top boxes and game consoles to have a high speed network and Internet connection.
- Complete push-button wireless network set up and configuration. Simply pushing the "AirTouch" button on Air4420 is all that is needed to setup the device on the wireless network and enable security.
- Air 4420 tuned to optimally handle TV and Set Top Box data by ensuring minimal jitter and high data throughput.
- Air4420 tuned to optimally handle Games Console traffic by ensuring high latency and high data throughput.

One touch easy setup

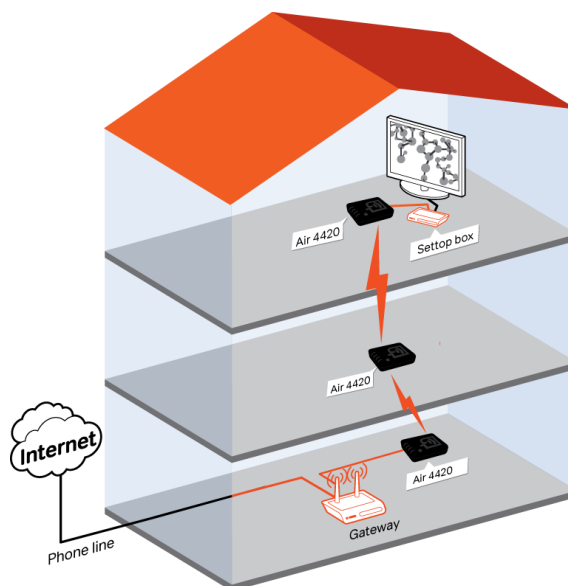
AirTouch technology provides complete push-button wireless network set up and configuration: For many users who are not experts, configuring wireless securely is difficult. AirTouch makes it possible for anyone to configure these complex settings automatically, at the touch of a button. Pushing the "AirTouch" button on the Air4420 is an indication that you can physically reach the device and also that you are a trusted user. When the button is pressed, the AirTouch connection begins, and the security settings between AirTies devices are automatically configured.

AirTouch is used to automatically create a secure wireless connection for the bridge solution.

Extend wireless range

It is possible to extend the range of a wireless bridge by adding additional Air4420s. There is no limit to the number of Air4420s that can be used, meaning that a wireless bridge can travel long distances between many obstacles, such as thick concrete walls or several floors in a building.

Additional Air4420s are added simply added using **AirTouch**.



Specifications

Main Features

- **Multi-function:** Router, 300Mbps Wireless Access Point, Repeater
- **“N-speed” solution to getting past concrete walls with a high speed wireless connection!!!:** 300Mbps speed wireless Access point backward compatible with 54 Mbps 802.11a/g.
- **AirTouch:** Simple setup button to securely connect supported devices.
- **Media Server:** UPnP AV / DLNA compatible Media Server.
- **Extending Wireless Coverage at the Touch of a Button:** With AirTouch technology, it is now very simple to setup an AirTies Mesh Network and extend wireless coverage area.
- **IPTV-ready!!:** The Air 4420, with its IP QoS, VLAN, WAN-to-VLAN mapping and IGMP support, is ready for the newest, state of the art services offered over the Internet such as IPTV
- **Multi SSID support** allows for setting up multiple wireless networks with a single Air4420
- **USB Plug and Share:** printer and file sharing capability throughout your entire network from a single point
- **Easy setup and management:** Universal Plug and Play (UPnP), Zero Configuration through TR-069, AirTies Easy Setup CD
- **Easy Update:** Automatic firmware upgrade through TR-069 ACS and/or AirTies Firmware upgrade server. Firmware (software) upgrades via the Advanced Settings Web interface.
- **Advanced Wireless Security:** WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal, and WEP wireless encryption standards support
- **Firewall:** Advanced anti-DoS SPI Firewall; MAC and IP address based filtering for Internet access
- **Router:** Advanced router with DHCP server, NAT, NAT, DMZ, IGMP, 802.1Q VLAN, RIPV1/v2 support
- **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.
- **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**

Technical Properties

- **Ports:** Power (12V DC), 1 x 10/100 Ethernet(RJ-45, auto MDI/MDIX), USB
- **Connection protocols:** PPPoE, RFC1483 Bridging, RFC1483 Routing,
- **Router and Firewall:** Advanced Anti-DoS SPI Firewall; IP and MAC address based filtering; Port forwarding; DMZ; Static Routing; DHCP server and client; DNS Proxy; PPP (PAP/CHAP/MSCHAP)
- **Wireless transmit power:** Max 20 dBm EIRP @2.4GHz. Max 23dBm EIRP @5GHz.
- **Wireless security:** WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal, WEP (64/128 bit), 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).
- **UPnP** Plug & Play feature
- **LEDs:** Power, Wireless, USB, Ethernet, AirTouch
- **AirTouch Button**
- **Mounting:** wall mount or desktop use.

Physical Characteristics

- **Dimensions:** 90mm x 70mm x 20mm
- **Weight:** TBDg
- **Power:** 12V DC, 1 A
- **Adapter operating voltage:** 100V-240V AC
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Operating Humidity:** %10 ~ %90

Package Contents

- Air 4420 300 Mbps Dual Band Wireless IPTV Access Point
- 12V Power Adapter
- Ethernet Cable
- AirTies Easy Access Program Setup CD
- Quick Installation Guide
- Warranty Card and Certificate of Compliance

* will be available with firmware upgrade.

