

### 600 Mbps Wireless Video Streamer

### 600 Mbps Wireless Video Streaming, AirTouch, 4 Fast Ethernet ( 4xGigabit Ethernet optional)

- Air 4640 is offering a 4x4 **802.11n** high-speed wireless solution that can provide ultra reliability, predictable bandwidth and unprecedented high speed performance for **real-time video distribution** and data transmission in the home.
- Complete **push-button wireless network set up** and configuration. Simply pushing the “**AirTouch**” button on Air 4640 is all that needed to configure the device on the wireless network and enable security. AirTouch is compliant with WPS therefore all WPS compliant clients can be connected to Air4640 with a touch of a button.
- Air 4640 is capable of wirelessly sending **4 HD and 4 SD video streams simultaneously**. The device continues to operate as an access point while providing this functionality.
- The **Gigabit** ports (optional) provides ultra-fast data transmission between wireless and LAN ports.
- **Plug and Play Installation**. No configuration is needed (SSID, Security, Channel, Pairing etc).
  1. Turn On the device
  2. Check WiFi Link LED to see if the signal between two device is sufficient for HD video distribution or not
  3. Enjoy



### Enhance your life with highest-speed wireless connectivity in every corner while sharing your movies, music and photos!!

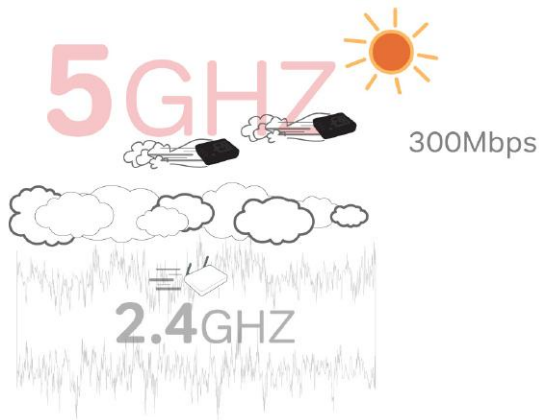
In the area of wireless video transmission, Air4640 getting ready to achieve many firsts in the world. In those environments where concrete walls are in the way and where the frequencies in which wireless transmission takes place is full, the AirTies Air4640 does what is almost impossible and provide uninterrupted communications at 5GHz to transfer video/IPTV packets. With the smart frequency selection feature, Air4640 selects the most suitable frequency for itself, and with the QoS (Quality of Service) feature that gives high priority to video packets, Air4640 ends the clutter of cables in your house.

A high speed Wireless Bridge can be created to enable connect devices in the home that have only an Ethernet port, such as Internet TVs, Set Top Boxes and Game Consoles.

### Wireless Video Features

- **Interference Avoidance:** Air4640 scans all 22 channels at the 5Ghz band, monitors traffic and noise in each channel and dynamically changes wireless channels to avoid interference at runtime without interrupting video streaming.
- **Jitter Avoidance:** Jitter avoidance technology time stamps each packet and ensures video arrives at STB as if it is receiving from a wired Ethernet connection with a small delay.
- **Smart queuing:** 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.
- **Traffic prioritization:** Automatic detection of traffic type (multicast, unicast TCP/UDP, gaming) and prioritization.





### AirTies Network Assistant

More and more devices have the ability to be connected to networks, from netbooks, notebooks and computers to televisions, media players and mobile phones. With this rise in the number of devices that are connected to the home network and the greater number of network components and configuration required to enable this, it is becoming increasingly difficult to setup and keep home networks running effectively. Going forward, more consumer devices will become network enabled, meaning that this situation will only get worse.

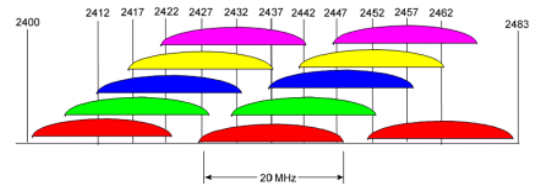
There are various techniques and tools that are available to monitor and manage networks. The difficulty is that these tools require a high level of technical knowledge and experience to understand and use, which is considerably more than the average home user should be expected to possess.

AirTies Network Assistant is a novel and innovative application that runs on users' Personal Computers and allows all users to setup, configure, monitor and control their home network, whatever their technical understanding is. All functionality is delivered in a user friendly way and is very easy to use.



### 5 GHz Video Distribution

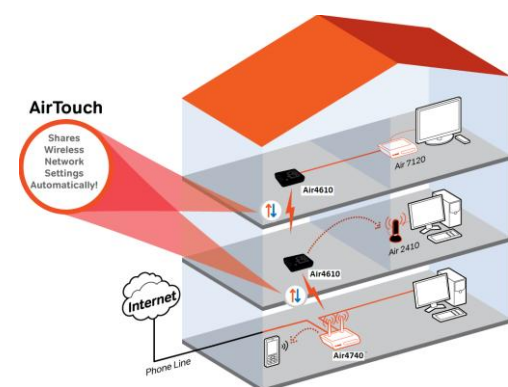
Most wireless routers operate at 2.4GHz which has only 3 non-overlapping channels. This leads to congestion which reduces wireless performance significantly. However, 5 GHz support provides 22 channels for interference free, high speed true 600Mbps wireless networking, allowing you to watch High Definition 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.



### AirTouch technology provides complete push-button wireless network set up and configuration

For many users who are not experts, configuring wireless security 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 Air4640 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 Access Points are automatically configured.

AirTouch technology allows Automatic Configuration Sharing where any changes to the wireless configuration of a node are automatically sent out to all nodes in the network. For example, if the wireless network password on a MESH network consisting of 3 wireless Access Points needs to be changed, you no longer need to set the password on each AP. Any change to one of the APs gets propagated to the others automatically synchronizing the settings of all wireless nodes in the network.



## Specifications

### Main Features

- **“N-Speed” solution to getting past concrete walls with a high speed wireless connection: 600 Mbps** wireless access point compliant with the **802.11n** standard
- **Wireless connection: 600 Mbps single band** wireless access point compliant with the **802.11n** standard
- **Wireless Video Transmission:** 4x HD (each HD video up to 20Mbps bit rate) and 4 x SD video simultaneously
- **Energy Efficiency:** Comply with Code of Conduct 2013
- **Remote Management:** Auto-provisioning of LAN, and WAN setting via CWMP (TR-069, TR-098, TR-111, TR-064<sup>1</sup>) support. Also supports, Web, Remote Management and Telnet. AirTies products are certified by ACS vendors such as Alcatel Motive, Consona-Supportsoft
- **4 Port Switch:** 4 Fast Ethernet Ports (Gigabit support is optional)
- **AirTouch:** Simple setup button to securely connect supported devices.
- **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.
- **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 wireless standards
- **MSSID (Multi SSID)** Multiple SSIDs can be created to allow different users access to the Internet / network
- **Advanced Wireless Security:** WPA2-PSK, WPA2-802.1x, WPA-PSK, WPA-802.1x
- **Automatic Wireless Security configuration:** AirTies Network Assistant automatically configures wireless security settings for the router and the PC that is used for setup.
- Easy setup with the animated **AirTies Network Assistant Software:** Network Diagram, Device Control, Troubleshooting, Automatic firmware and software upgrade, download / upload counter.
- **Automatic Firmware Upgrade:** Automatic firmware upgrade capability with the AirTies Network Assistant, TR-069 ACS and the user interface. It is important to use the latest firmware to get the best possible performance out of your router.
- **Easy setup and management:** Universal Plug and Play (UPnP), user-friendly AirTies Network Assistant Software and User Manual
- **Uninterrupted Technical Support:** 7/24 AirTies Call Centre and Technical Support (engineering support by the AirTies R&D team when needed)
- **3 year extended warranty**

### Technical Properties

- **Wireless transmit power:** 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:** 802.11a, 802.11n, 802.11d, 802.11e, 802.11i, 802.11h standards compliant.
- **Wireless communication rates:** 1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, 54, 72, 144, 150, 300, 450, 600
- **Frequency range:** ETSI 5.150-5.250 (UNII1), 5.250-5.350 (UNII2), 5.475-5.725 (Mid Band UNII), 5.725-5.825 (UNII3).
- **LEDs:** Power, Ethernet, Wireless, AirTouch
- **Ports:** 4 Ethernet LAN (RJ45), Power
- **Reset button** to return to factory settings
- **AirTouch** button for simple setup and secure connection with WPS supported wireless devices
- **On/Off** button
- **UPnP:** Universal Plug & Play Internet Gateway Device
- **Mounting:** wall mount or desktop use.
- **Certificates and Standards:** CE

### Physical Characteristics

- **Dimensions:** 179mm x 125mm x 33mm
- **Weight:** TBD
- **Power:** TBD
- **Adapter operating voltage:** 100V-240V AC
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Operating Humidity:** %10 ~ %90

### Minimum System Requirements

- For wired use: a computer with an Ethernet adapter that supports TCP/IP.
- For wireless use: 802.11b/g/n wireless adapter or computer with wireless capabilities.
- For the Web UI Access and setup: Any versions of Linux, Windows or Mac operating systems.
- For AirTies Network Assistant Program: 32-bit Windows XP (SP2), Vista or Windows7 operating systems.
- The device does not need to be connected to a PC during normal operation.

