

# 1600 Mbps 802.11ac Video Grade Wireless Booster



### High-Speed, Complete Wireless Solution

For operators who want to control the home network and cost effectively upgrade their legacy gateways the Air 4920 is an ideal solution. The device is remotely manageable via TR69 and can provide a wealth of statics and information on how the home network is being utilized. 802.11ac performance and extend coverage range throughout the home using its **beam forming** technology.

**3x3 802.11ac and 2x2 802.11n** wireless solution provides ultra-reliability, predictable bandwidth and unprecedented high speed performance for **real-time video distribution** and data transmission in the home.

Send up to **10 HD video streams simultaneously** while the Air4920 continues to operate as access point for the rest of the network

As a **wireless repeater** Air4920 connects to a residential gateway wirelessly and repeats it's wireless signal at both 5GHz and 2.4GHz.

### Dual-Band Concurrent

While streaming HD videos over 5GHz with the super-fast 802.11ac technology, Air4920 also provides the best possible wireless performance for all your legacy wireless devices over 2.4GHz – **at the same time from Air 4920!**

### Smallest Dual Band Concurrent AC1600 Wireless Booster

Ergonomically designed, with a 9x10 cm small form factor, takes up minimum space in the TV cabinet.

### User Friendly: Secure network Configuration at the Touch of a Button

Push the **WPS Button** on the Air 4920 to securely configure the device on the wireless network. Add more access points and extend the network the same way.

### 100% Wireless Coverage in the Home

Delivering reliable, 100% wireless coverage range in every home top to bottom, back to front has long posed a major challenge for many service providers. AirTies Mesh was designed to optimize wireless coverage range in the least invasive and most power efficient manner. By stringing together a series of small, low-power, and smart access points, Mesh ensures 100% wireless coverage in any home.

Auto Mesh increases the efficiency of air time and is particularly beneficial for real time wireless video distribution. It utilizes “per-packet” routing via the most direct path from “server” (which may be the Internet, or another mesh point such as a set-top box) to each client. In this way, the wireless network map is completely fluid and flexible, never using potentially wasteful static routes. It constantly reevaluates clients, applications and data flows to maximize wireless network capabilities.

### Best Way to Connect STBs to Internet Wirelessly

The Air 4920 connects to the new 11ac gateways automatically over the high capacity 5GHz link as a universal repeater using the wireless credentials of the gateway. The consumer sees a single network with the same network name and password. The dual band concurrent booster operates at both 2.4GHz and 5GHz WiFi collision domains simultaneously reducing retransmission overheads. Legacy 2.4GHz operate at maximum performance at close range. Wide scale interoperability with legacy devices is insured by Broadcom chips.

The Air 4920 is the world's first booster/repeater that is operator grade video streaming capable. It can connect to STB's, stream 10 HD video channels, deal with both multicast and unicast traffic and prioritize the TV service over general traffic.

### Wireless Video Features

**Interference Avoidance:** Air4920 scans all 22 channels at the 5GHz band, monitors traffic and noise in each channel and dynamically changes channels to avoid interference at runtime all without interrupting video streaming.

**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:** ensure high quality delivery without delay. Automatic detection of traffic type (multicast, unicast TCP/UDP, gaming) and prioritization.

**Enhanced interoperability:** Air4920 wireless video core is engineered to be interoperable with well-known wi-fi gateway chipset solutions such as **Quantenna, Broadcom, Atheros, MTK, Realtek and Celeno.**

### Wireless Music and Digital Media Server

**Enjoy your audio** content wirelessly with the Audio output port of Air4920.

Attach an external disk drive containing media files to the Air 4920's USB 3.0 port and wirelessly stream media (movies, photos, music) to any compatible TV or screen on the network with **Air 4920 Media Server** feature.



### Main Features

- **All-in-one solution:** 1300 + 300 Mbps dual band concurrent wireless access point, repeater, digital media server
- **Wireless connection:** 1300AC + 300N Mbps dual band wireless access point compliant with the 802.11ac and 802.11n standard
- **Wireless Video Transmission:** 10x HD (each HD video up to 20Mbps bitrate) video simultaneously
- **Remote Management:** CWMP (TR-069, TR-098) support. Also supports, Web, Remote Management and Telnet. AirTies products are certified by ACS vendors such as Alcatel Motive, Consona-Supportsoft
- **Energy Efficiency:** Comply with Code of Conduct 2013
- **2 Port Switch:** 2 Gigabit LAN ports
- **Dual Band Concurrent:** Frequency works at both 2.4GHz and 5GHz bands simultaneously.
- **WPS:** Simple setup button to securely connect supported devices.
- **Extending Wireless Coverage at the Touch of a Button:** Easy 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.
- **Wireless Music and Digital Media Server** powered by Audio output port and USB3.0
- **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:** IP QoS, VLAN, WAN-to-VLAN mapping and IGMP support, Any Port Any Service for automatic detection of IPTV STBs
- **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.
- **Automatic Firmware Upgrade:** Automatic firmware upgrade capability with the AirTies Network Assistant , TR-069 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

- Ports: 2 Gb Ethernet LAN (RJ45), Power, USB3.0, Audio(3.5mm)
- LEDs: Power , 2.4GHz WLAN, 5GHz WLAN, WPS
- 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 802.11b, 802.11g, 802.11a, 802.11n, 802.11ac, 802.11d, 802.11e, 802.11i standards compliant.
- Wireless communication rates (Mbps): 802.11a/b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54. 802.11n: 6.5 to 300. 802.11ac 6.5 to 1300
- Frequency range: 2.4000 GHz to 2.4835 GHz , 5.150GHz to 5.250GHz, 5.250GHz to 5.350GHz, 5.470GHz to 5.725GHz
- Reset button to return to factory settings
- WPS button for simple setup and secure connection with WPS supported wireless devices
- UPnP : Universal Plug & Play Internet Gateway Device
- Certificates and Standards: CE

### Physical Characteristics

- Dimensions: 100mm(H) x 108.4mm(D) x 41.5mm(W)
- Power: 12V DC
- 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/ac wireless adapter or computer with wireless capabilities.
- For the Web UI Access and setup: Any versions of Linux, Windows or Mac operating systems,
- The device does not need to be connected to a PC during normal operation.

### Future Forward Features

- Add up to 9 nodes in a single mesh network (6 of which can have Ethernet connections)
- TR-069 RPC adds to remote management options
- Fully compatible with Air 4930, the next generation of AirTies wireless access point

