1700 Mbps 802.11ac Wireless Video Bridge / Access Point

High-Speed, Wireless Video Bridge/AP

Air 4820 is a 4x4 802.11ac Video Bridge/AP supporting advanced AirTies technologies. It provides ultra-reliability, unprecedented high speed for real-time video and data transmission in the home. While streaming UHD videos over its 5GHz super-fast 802.11ac technology, it also provides the best possible wireless performance for data clients which support 5GHz at the same time.

AirTies Mesh Technology

AirTies Mesh technology has been developed to circumvent the coverage, robustness and capacity limitations imposed on wireless home networks by the conventional star topology (single AP-to-multiple clients). By delivering traffic over high-capacity AP-to-AP links until the last hop to the client, Mesh topology significantly extends coverage while also increasing the capacity that can be delivered to all devices in the home – making possible a true "premium Wi-Fi" experience.

AirTies 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 re-evaluates clients, applications and data flows to maximize wireless network capabilities

AirTies Client Steering

For best wireless network performance, it is as crucial to associate clients to right AP as client traffic routing. However steering a client purely based on link phy-rates to the AP it would connect would not give optimum performance in multi-AP environments. Path-aware, end to end cost calculation is necessary to make the right decision. AirTies Client Steering technology calculates end-to-end throughput for all potential client-AP associations and decides the best AP for each client optimizing performance. AirTies Steering is completely client agnostic and requires no client side component.

Small form-factor

Aesthetically pleasing design, with a 9x10 cm small form factor, takes up minimum space in the TV cabinet.

Hassle Free Migration to Premium Wi-Fi

Factory pre-paired packs requires no configuration. As soon as cables are plugged in, installation is done. Additional nodes can be added to existing Mesh network at the touch of a button. Newly added nodes will automatically be configured with the settings of the existing Mesh network.

Configuration change on a single device automatically propagates to whole network. For example if Wi-Fi password is changed on a device change is applied to whole network.

Resilient, Reliable Wi-Fi

Nothing more frustrating than lost connections. In AirTies Mesh network, alternatives routes are always on. If an AP is powered down or a link is not usable for any reason, packets will be re-routed through alternative paths immediately.

Unified Solution for Video and Data

AirTies' advanced QoS packet classification technologies enables latency-sensitive traffic such as multicast IPTV streams and data traffic over the same Wi-Fi network throughout the house.

Advanced Interference Avoidance

Air 4820 scans all channels, monitors traffic and noise in each channel and dynamically changes channels to avoid interference if necessary. Being a certified device Air 4820 has the ability to enable DFS to take advantage of additional channel options, while listening for radar communication to dynamically update radio settings if necessary. It also supports zero wait DFS technology which enables it to go in and out of radar channels without interrupting its wireless service.

Remote View Cloud Application

Application provides extensive data analytics for business intelligence, pro-active and real-time troubleshooting for call center agents addressing customer complaints after deployment

Main Features

- **Wireless Connection:** 1700AC Mbps wireless bridge/access point compliant with the 802.11ac and 802.11n standard
- **Remote Management:** CWMP (TR-069, TR-098) support.
- **Energy Efficiency:** Complies with Code of Conduct v5
- **Ethernet:** 2 Gigabit LAN port
- **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
- **AirTies Mesh Technology:** Circumvents coverage, robustness and capacity limitations imposed on wireless home networks by the conventional star topology
- **MSSID (Multi SSID):** Multiple SSIDs can be created to allow different users access to the Internet / network
- **IPTV-ready:** QoS, IGMP support
- **Advanced Wireless Security:** WPA2-PSK, WPA2-802.1x, WPA-PSK, WPA-802.1x
- **Automatic Firmware Upgrade:** Automatic firmware upgrade capability with the http, TR-069 and the user interface.

Technical Properties

- **Ports:** 2 Gb Ethernet LAN (RJ45), Power
- **LEDs:** Power, Wireless connection indicators (Good, Bad)
- **Wireless Security Options:** WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal
- **Wireless standards:** 802.11n, 802.11ac, 802.11d, 802.11e, 802.11i standards compliant.
- **Frequency range:** 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, FCC, Wi-Fi Alliance, Code of Conduct Energy Efficiency

Physical Characteristics

- **Dimensions:** 90mm(H) x 103.5mm(D) x 40mm(W)
- **Power:** 12V DC 1A
- **Adapter Operating Voltage:** 100V-240V AC
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Operating Humidity:** %10 ~ %90