



**300 Mbps**

**AIR-AP600GHP**

**802.11b/g/n Indoor High Power Access Point with 802.3af PoE**



The AIR-AP600GHP Access Point is a high-performance AP that is designed for enterprise and public access applications. Embedded with Atheros XSPAN chipset, it boosts network robustness and stability and wider network coverage. Based on latest 802.11n Wireless Technology, it has high-speed data transmission rates of up to 300 Mbps, providing 15X the speed and 7X the range of 802.11g Access Points. The AIR-AP600GHP is optimized for streaming video, and play multiplayer, online games without dropped frames. It is also ideal for wirelessly sharing music, photos, movies, and high speed Internet access.

AIR-AP600GHP is able to operate in different modes such as Access Point or Client Mode for either Bridging or Routing Applications, which makes it suitable for a variety of wireless applications and deployments. Equipped with two SMA antennas, AIR-AP600GHP provides a wider coverage for your network. An integrated Power over Ethernet (PoE) allows AIR-AP600GHP to be used in areas where power outlets are not readily available.

To protect your security and privacy, AIR-AP600GHP is armed with many enhanced wireless security features compatible with WPA™, WPA2™ (with Advanced Encryption Standard algorithm) MAC Address Filtering, IEEE 802.1x Authentication and 64/128-bit WEP (Wired Equivalent Privacy) to ensure privacy for the heterogeneous mix of users within the same wireless LAN, while maintaining full access to the establishment's resources.

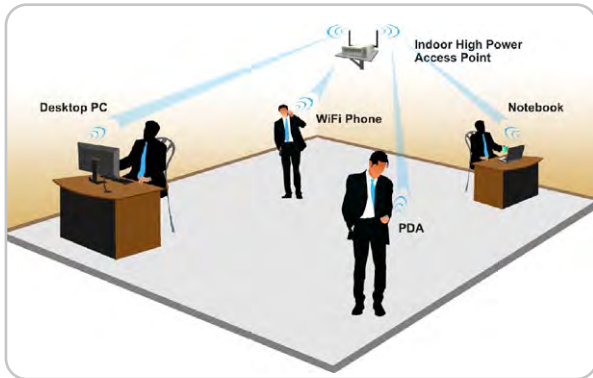
The AIR-AP600GHP uses Repeater WDS mode to extend the wireless range and coverage of the wireless network allowing access and communications over places generally difficult for wireless clients to connect to the network. The AIR-AP600GHP is able to map several wired VLANs to the wireless LAN thanks to the Multi SSID feature and create priority access and different levels of security.

## Features:

- Atheros XRTM eXtended Range Technology
- IEEE 802.11n compliant and backward compatible with 802.11b/g
- 2 x 2 MIMO spatial multiplexing technique
- Supports up to 300 Mbps physical data rates
- Maximum 29dBm/800mW Output Power
- Transmission Power Control (TPC) and Dynamic Frequency Selection (DFS)
- Supports 802.3af PoE
- Surge arrester support
- WEP & WPA2 Support
- Virtual Access Point (VAP) - Up to 4 SSIDs with unique MAC Addresses (BSSID)
- Multicast Routing support
- Bandwidth Control
- Supports IEEE802.11i , IEEE802.1x authentication
- 2 x RP-SMA Connector and Antenna



### Applications:



### Indoor High Power Access Point

In an enterprise or campus area, some mobile users may need a continuous network connection. By installing AIRNET 300 Mbps Access Points in the area, mobile users can be always on the network by installing a wireless card in their notebook or PDA and Wi-Fi Phone. The roaming capacity allows users connecting to the network to transparently roam from one access point to another.



### Small Wireless ISP

A first mile solution now is simple with AIRNET 300 Mbps access points. No wiring is required and the provided bandwidth can be up to 300Mbps. By installing AIR-AP600GHP equipped with omni-directional antenna in the user's neighborhood, all users around the access point can easily connect to Internet through the access point by installing a wireless USB Adapter, PCI Card or a AIR-AP600GHP in client mode.

### LAN to LAN or LAN to Multi-LAN Connection

Wiring inside your own building may be an easy job, but it is hard if network cabling needs to route through some public areas or difficult wiring environments. AIRNET 300 Mbps Wireless Access Points can work in bridge mode to provide a robust solution for connecting two or more wired Ethernet buildings. By extending distance, using NETKROM's external antenna, the installation is easy and the distance between buildings can be 20km or more.



Point to Point Link



Point to Multipoint Link



## Specifications:

<b>Standard</b>	IEEE 802.11n
<b>Frequency Range</b>	2.400 ~ 2.497 GHz (Programmable for different country regulations) Supper Channel: 2.300~2.500 GHz
<b>Wireless Operating Range</b>	802.11n: 600m (300Mbps outdoor), 100m (300Mbps indoor)
<b>Network Interface</b>	RJ45 10/100Mbps auto-negotiating Ethernet Port
<b>Modulation Techniques</b>	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
<b>Operating Channels</b>	11 Channels: US and Canada / 13 Channels: Europe / 14 Channels: Japan
<b>RF Operation Mode</b>	Access Point, Station, Access Point WDS, Station WDS Repeater WDS, Access Point + Router Station + Router
<b>Virtual Access Point (VAP)</b>	Up to 4 SSIDs with unique MAC Addresses (BSSID)
<b>Security</b>	Station Isolation MAC Address Filtering WEP 64/128 - bit IEEE 802.1x—TLS, TTLS, PEAP WPA-PSK and WPA-EAP (TTLS, PEAP) , WPA2 (with AES encryption technique)
<b>Advanced Features</b>	IP Routing - static Routing, NAT and Port Forwarding (Routing mode only) PPPoE Client, PPTP for VPNs Network (Routing mode only) RIP v1 / 2 (Only in Routing Mode) 802.1Q Tag and Untag VLAN / VLAN Pass-through 802.1d Spanning Tree Protocol IEEE 802.11h (DFS & TPC) DFS (On/Off) Ability DHCP Server, Relay, and Client / DHCP Server Reservation Remote Firmware Upgrade Transmission Power Control (One dB per step) Firewall and Packet/URL Filtering (Routing mode only) Multicast Routing support Monitor Utils (Ping, ARP table, Bridge Table, DHCP active leases, CCQ) Bandwidth Control based on IP or MAC address
<b>WAN Type</b>	Static IP Dynamic IP PPPoE PPTP
<b>Management</b>	HTTP/ HTTPS Web Server SNMP V2c Telnet / Secure Shell (SSH)
<b>Data Capture &amp; Notification</b>	Event Login (Syslog) Detailed Statistics per Client
<b>Antenna Type</b>	Two detachable 2dBi antenna with RP-SMA connector
<b>LED indicators</b>	Power, Diagnostic, LAN, WAN, WLAN
<b>Power Requirements</b>	24VDC Power Adapter ( 802.3af PoE support )
<b>Output Power</b>	29dBm @ 11bg 23dBm @ 11gn HT20 22dBm @ 11gn HT40
<b>Receiving Sensitivity</b>	802.11b: -96dBm@1Mbps, -91dBm@11Mbps 802.11g: -96dBm@6Mbps, -83dBm@54Mbps 802.11gn HT20: -92dBm@MCS0, -73dBm@MCS15 (150Mbps) 802.11gn HT40: -90dBm@MCS0, -71dBm@MCS15 (300Mbps)
<b>Certifications</b>	FCC, CE Mark
<b>Environmental Requirements</b>	Operating temperature: -20°C to 70°C Storage Temperature: -30°C to 80°C Operating Humidity: 10% to 80% relative humidity non-condensing RoHS Compliant: Yes
<b>Dimensions (H x W x D)</b>	5.7 in. (145mm) x 5.2 in (132mm) x 1.6 in (41mm)
<b>Weight</b>	9.2oz (260gr)

## Ordering Information:

- AIR-AP600GHP

AIRNET 300 Mbps 802.11b/g/n Indoor High Power Access Point with 802.3af PoE (29dBm/800mW)