



AP-G250 High Power Professional Wireless AP/Router



The AIR802 AP-G250 high power 24dBm (250mW) access point (AP) is configurable in various modes, fully supports IEEE 802.11b/g standards and is feature rich.

Applications for this professional access point include residences, commercial offices, medical offices, yachts and sailboats, RVs, inter-building networks, educational institutions, and other locations where an AC powered high powered multi-mode AP/router is required.

Features

- RF power output up to 250mW provides stronger signal, better connectivity and higher distance range than typical 802.11b/g or 802.11n devices with 30 to 65mW output.
- Extremely reliable.
- Supports multiple functional modes, including router, bridge and client device.
- Supports multiple wireless modes, including access point, client, WDS and universal repeater.
- Advanced wireless security and firewall functionality.
- Plugs into standard AC power outlet.
- Includes antenna with 3 dBi gain.
- Can be configured using any web browser or SSH.
- Two Ethernet ports: one WAN/LAN and one LAN.

AP-G200 Technical Specifications

WLAN Standards

- 802.11b
- 802.11g

Radio Scheme

- 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
- 802.11b: DSSS (CCK, DQPSK, DBPSK)

Frequency Range

- 2.4 ~ 2.497 GHz

Operating Channels

- 11 for North America
- 13 for Europe
- 14 for Japan

RF Output Power (AP – Does not include antenna gain)

- 802.11b: 20dBm (100mW) ~24dBm (250mW) @ 11 Mbps \pm 1dBm
- 802.11g: 17dBm (50mW) ~20dBm (100mW) @ 54 Mbps \pm 1dBm

Sensitivity

- 802.11b: -84 \pm 2dBm @ 11 Mbps
- 802.11g -75 \pm 2dBm @ 54 Mbps

Data Rate

- 802.11g: 54/48/36/24/12/9/6 Mbps
- 802.11b: 11/5.5/2/1 Mbps

Operating Mode

- Router (NAT enabled)
- Bridge
- WISP (AP Client with Routing Function – NAT enabled)

Wireless Modes

- Access Point
- Access Point + WDS
- WDS (Wireless Repeater, Point-to-Point, or Point-to-Multipoint)
- Client Device (Ethernet to WLAN Bridge)
- Universal Repeater Mode (AP Client + AP Functionality Simultaneously)

Wireless Features

- MAC Clone (Client Mode Only)
- Access Control (Allow or Deny Client MAC Addresses)
- Site Survey (Scan Wireless Networks)
- AIM Tool (Fine Tuning Antenna Direction)
- Show Active Associated Clients

Wireless Features – Advanced

- Authentication Type (Open System, Shared Key, Auto)
- Fragmentation Threshold Adjustment (256-2346)
- RTS Threshold Adjustment (0-2347)
- Beacon Interval Adjustment (20-1024ms)
- ACK Timeout Adjustment (0-255, 0 is default)
- Client Expiration Time (101-40000000 Sec)
- MTU Size Adjustment (100 to 1500)
- Data Rate Selection (Auto or Rate Interval)
- Preamble Type (Long or Short)
- Broadcast SSID (Enable or Disable)
- IAPP (IEEE 802.11f Station Roaming within Subnet)
- 802.11g Protection – Protects 802.11b Users
- Block WLAN Relay between Clients
- Turbo Mode (72Mbps - Applies to Realtek WLAN Chipsets)
- Aggregation Mode
- Tx Burst Mode
- Transmit Power – OFDM (802.11g) Step-Down Adjustment
- Transmit Power – CCK (802.11g) Step-Down Adjustment

Security

- Password Protection
- Encryption [None, WEP, WPA (TKIP), WPA2 (AES), WPA2 (Mixed)]
- MAC Filtering
- Hidden SSID Broadcast
- 64/128-bit WEP Encryption
- WPA for 802.1x and WPA-PSK
- WPA2 / IEEE 802.11i
- WPA Authentication Mode [Enterprise (RADIUS), Personal (Pre-Shared Key)]

LAN Interface

- Set IP Address, Subnet Mask and Default Gateway
- Set DHCP (Server, Client, Disabled)
- Set DHCP Client Address Range
- 802.1d Spanning Tree
- Clone MAC Address
- Set MTU Size

WAN Interface

- Set WAN Access Type (Static IP, DHCP Client, PPPoE, PPTP)
- Set IP Address, Subnet Mask and Default Gateway
- DNS (Automatic or Manual Entry)
- Clone MAC Address

- Enable uPnP
- Enable Web Server Access on WAN
- Enable IPsec pass through on VPN Connection
- Enable PPTP pass through on VPN Connection
- Enable L2TP pass through on VPN Connection

Routing

- NAT (Enable or Disable)
- IP Forwarding Default Policy
- Dynamic Routing (RIP v1 & RIPv2) or Static Route

Firewall

- Port Filtering
- IP Filtering
- MAC Filtering
- Port Forwarding
- DMZ (Demilitarized Zone)
- VPN

Management

- Status (Firmware Load, Current WAN/LAN IP Address and More Info)
- QoS Enable & Set Parameters
- Bandwidth Control (Set Upstream & Downstream Rate in Client Mode)
- SNMP (Enable or Disable and Set Parameters)
- Dynamic DNS Service (Enable or Disable and Set Parameters)
- Time Zone (Enable NTP Client)
- System Log
- Misc (Set HTTP Port, RSSI Interval, Enable Ping Watchdog)

Mesh Network - Optimized Link State Routing Protocol (OLSR)

- Available in WISP AD-HOC Mode if WAN Port is Static IP or DHCP Client
- Firmware Upgrade
- Save/Reload Settings to Hard Drive
- Web GUI
- SSH
- Discovery Tool (discovers IP address)

Antenna

- RP-SMA Jack (mate with RP-SMA Plug)
- 3dBi dipole antenna

Power Supply

- Power Supply Input: 110 to 240 VAC, 50-60 Hz
- Power Supply Output: 5 VDC \pm 5%, 2A

Operating Environment

- Temperature -30°C~ +60°C (-22°F to 140°F)
- Humidity 10~90% (non-condensing)

Certificate

- FCC, CE

Warranty

- AIR802 1-Year Warranty

Maximum performance is derived using IEEE 802.11 specifications. Actual performance such as range and data throughput rate will vary. Numerous factors such as network traffic, building construction materials, mix of wireless products in use and interference all have an effect on the actual performance.



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