



802.11g/b Access Point

■ ■ AW5300

- IEEE 802.11g/b 54Mbps wireless network
- Fast Handoff
- Smart Routing
- Wireless Client Isolation
- Firewall & Packet Filtering
- Wireless link security: WEP, WPA-PSK, WPA2, IEEE 802.1x/RADIUS
- WDS security: WEP, TKIP, CCMP(AES) encryption
- Operating Temperature: 0 to 60°C
- Storage Temperature: -40 to 85°C
- Configuration via Web Server, or our Windows-based utility programs
- Optional standard 2.4GHz high-gain antenna
- Upgradeable firmware via network connection

Fast Handoff

The AW5300 employs an advanced algorithm for fast roaming for mobile stations that roam across several coverage networks or cells very often. It is suitable for warehouse management where forklifts or mobile carts are moving around a large warehouse area that is deployed with several wireless access points. By deploying a smart beacon management at the wireless access point and the mobile station, the hand-off process delay which typically takes 1-4 seconds can be reduced to be less than 0.5 second. This feature is only available to Atop Wireless products. However, it is backward compatible to IEEE 802.11 standard wireless stations, and can be used together with other standard wireless access points and stations.

Smart Routing

WDS protocol shares the same wireless medium with regular traffic from wireless stations. Due to the limited wireless bandwidth, typical WDS traffic can tremendously reduce the overall network throughput. By deploying smart routing technique, our access point smartly filters all redundant traffics on both wired and wireless interfaces, improving the overall network performance.

Wireless Client Isolation

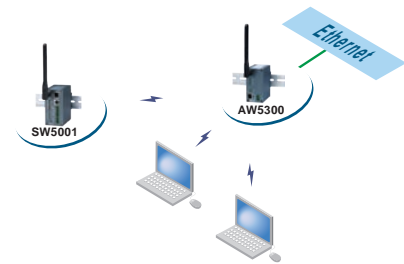
This special feature deploys intelligent network isolation to create a virtual network among wireless clients. We can prevent the communication among wireless clients into two levels (1) blocking all communication among wireless clients or (2) allowing only wireless clients associated to the same AP to communicate to each other. This is to help operators to separate malicious traffic from guest or public wireless LAN to flood the main wireless control network. It provides more network security, preventing possible data flooding due to virus, worm or spam.

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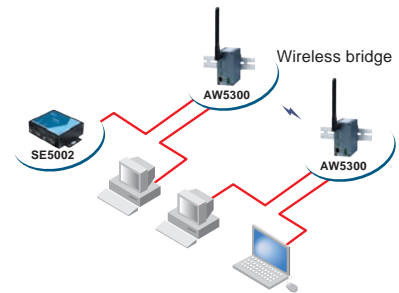
➔ AW5300

| Specifications | |
|-----------------------|---|
| System | |
| CPU | 32-bit 150MHz RISC Processor with MMU |
| Flash | 2+8 MB (2MB for Bootloader) |
| RAM | 32 MBytes SDRAM |
| EEPROM | 2K Bytes |
| Watchdog | Hardware built-in |
| Ethernet | |
| Compliance | IEEE802.3 |
| Port | 1-port |
| Transmission Rate | 10/100Mbps Auto-detection |
| Connector | RJ-45 |
| Auto MDI/MDI-X | Yes |
| WLAN | |
| Compliance | IEEE802.11g/b |
| Interface | Mini-PCI slot (for Wireless Module) |
| WEP | 64-bit / 128-bit data encryption |
| WPA | WPA/WPA2-PSK compatible (Supported TKIP / AES encryption) |
| Modulation | CCK, DQPSK, DBPSK, OFDM (11g) |
| Tx Power | 11b: 15dBm / 11g: 14dBm |
| Rx Sensitivity | -66dBm@54Mbps / -80dBm@11Mbps |
| Transmission Rate | 54Mbps (max.) with auto fallback |
| Transmission Distance | Up to 300 meters |
| Topologies | Infrastructure, Ad-Hoc |
| Antenna connector | Reverse SMA |
| Access Point | |
| Other | AP/WDS/Bridge and hybrid |
| Power | |
| Input | DC 9 ~ 48V |
| Consumption | Max. 4.5 W (Tx Mode) |
| Environment | |
| Operating | 0°C ~ 65°C (32° ~ 149°F) |
| Storage | -40° ~ 85°C (-40°~ 185°F), 5 ~ 95%RH |
| Dimension | |
| W x H x D | 45mm x 91mm x 80mm |
| Software | |
| Configuration | Web Page / Windows utility |
| Support Protocol | ARP, ICMP, TCP (UDP)/IP, DHCP Client, DNS, NTP,SNMP, SMTP,HTTP,Telnet |
| Ordering Information | |
| AP5300-WgN1 | IEEE802.11g/b Access Point |
| Optional Accessories | |
| Antenna | HG055: 5.5dBi reverse SMA connector with 180cm cable HG090 9dBi reverse SMA connector with 150cm cable |
| RF Cable | HG-C150AN SMA(R) to N-male 150cm cable |
| Power Adapter | US315-12 (US / EU) : AC100 ~ 240V / DC 12V ; 5.08mm pitch terminal block |

Access Point Mode



Wireless Bridge Mode



Wireless WDS Hybrid Mode

