



RoHS compliant

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 70°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.

802.11g/b Access Point



Hardware Specifications

| | |
|---------------------|---|
| CPU | 150 MHz RISC with MMU support |
| Flash Memory | 8 MB/ 2MB for Bootloader |
| SDRAM | SDRAM: 32 MBytes |
| Interface | Mini-PCI slot (for Wireless Module) |
| Watchdog | Hardware Watchdog Reset |
| Debug Port | RS-232 |
| Antenna | 4 dBi Reverse SMA |
| Wireless LAN | Based on Gigabyte GN-WI01 GS FCC Certified IEEE 802.11 b/g Humidity 10%-90% (Non-condensing) Operation Temperature 0-55°C 802.11b Data Rates: 11/5.5/2/1 Mbps 802.11g Data Rates: 54/48/36/24/18/12/9/6/5.5/2/1 Mbps 802.11g/b Outdoor Range: 980 ft. / 300 m.. Operating Channels: 802.11g/b: 11 (North America), 13 (Europe), 14 (Japan) WEP Encryption Length: 64 bit and 128 bit Security: WEP, WPA, WPA2, TKIP, AES, 802.1x Tx Power 11b: 14 dBm, 11g: 13 dBm Rx Sensivity: -66 dBm @ 54 Mbps, -80 dBm @ 11Mbps Antenna Connector: Reverse SMA Topologies: Infrastructure |
| Ethernet | 802.3u 10/100BaseTX Ethernet LAN Protection: Built-in 1.5 KV Magnetic Isolation |
| Power | Input: DC 24V-48V Consumption: 4.5 W @ Tx Mode |
| Dimension | 45 mm x 90 mm x 75 mm (W x H x D) |
| Environment | Operating: -0 ~ 60°C, 5 ~ 95% RH Storage: -40 ~ 70°C, 5 ~ 95% RH |

Software Specifications

| | |
|--------------------------|---|
| Protocols | HTTP, DHCP, TCP/IP, RADIUS, DNS, SNMP, NTP |
| Advanced Features | Fast Handoff, Smart Route, Wireless Client Isolation, Firewall & Packet Filtering |
| Configuration | Web-based management |
| Client OS Support | Windows 95/98/2000/ME/NT/XP, UNIX and Macintosh |
| Wireless Security | AP-STA: OPEN/WEP/WPA/WPA2/RADIUS WDS: OPEN/WEP/TKIP/CCMP(AES) Encryption |

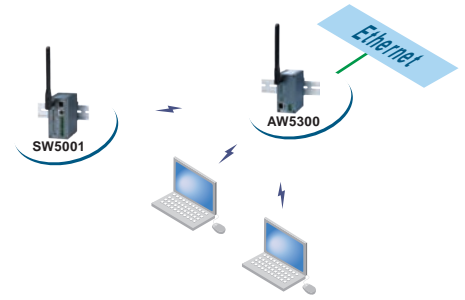
Ordering Information

| | |
|---------------|----------------------------|
| AW5300 | IEEE802.11g/b access point |
|---------------|----------------------------|

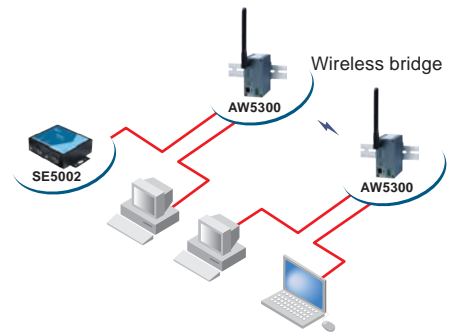
Optional Accessories

| | |
|-----------------------|---|
| US315-12 (US) | US plug, AC100~240V to DC12V, Terminal block for AW5300 |
| USE315-12 (EU) | EU plug, AC100~240V to DC12V, Terminal block for AW5300 |

Access Point Mode



Wireless Bridge Mode



Wireless WDS Hybrid Mode



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