



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 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.

802.11g/b Access Point



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

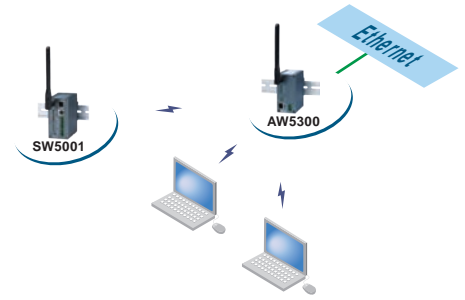
Ordering Information

AP5300-WgN1	IEEE802.11g/b Access Point
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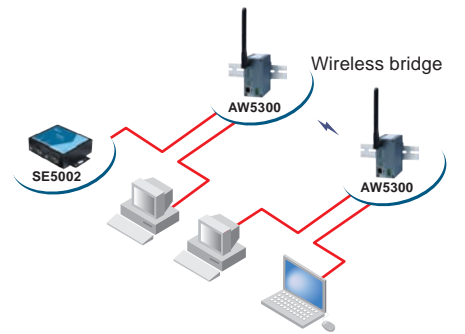
Optional Accessories

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



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CA_AW5300_E : v1-081028