



WAP-5000 / WAP-5100

802.11b WLAN Outdoor AP/Bridge

To improve the restrictions which physical cables place on most networks, PLANET today delivers wireless outdoor solutions that have removed the boundaries of both LAN and WLAN.

PLANET 802.11b WLAN outdoor solutions include two models: WAP-5000 and WAP-5100. WAP-5000 is a Wireless Access Point, which is suitable for widely open space applications such as WISPs, campuses, and airports. Except for 64/128-bit WEP encryption, WAP-5000 integrates 802.1X authentication, user isolation, protocol filtering, and MAC access control to secure the information of your wireless LAN.

WAP-5100 is a wireless bridge capable to link two or more remote sites together with up to 11Mbps data rate. When constructing a wireless building-to-building link with directional antennas, it is necessary to align the antennas for proper operation. The intelligent antenna alignment feature of WAP-5100 helps engineers to get the quick, convenient, and accurate alignment.

Both of the models have specially designed housing to against the rigorous weather conditions while they are installed in exposed locations. Provided with SNMP-based utility, the installation and management tasks become fast and easy. Furthermore, the PoE (Power over Ethernet) design reduces the power cables installation fee and provides more flexibility while selecting the locations of WAP-5000 and WAP-5100.

▶▶ KEY FEATURE

- Wireless LAN IEEE802.11b compliant
- Solid housing provides protection against rigorous weather conditions
- Multi-level network security
- One detachable reverse N-type male connector can connect to external antenna for expanding connection distance
- 5 levels of adjustable transmit power control in WAP-5000
- Intelligent antenna alignment feature in WAP-5100
- High speed data transfer rate up to 11Mbps
- Auto fall-back data rate for long-distance communication and noisy environments
- Provide powerful Windows-based SNMP utility for installation and management
- Support DHCP Client
- Power over Ethernet design

▶▶ SPECIFICATION

Product	802.11b WLAN Outdoor AP/Bridge	
Model	WAP-5000	WAP-5100
Standard	IEEE 802.11b	
Signal Type	DSSS (Direct Sequence Spread Spectrum)	
Modulation	BPSK, QPSK, CCK	
Port	10Base-TX (RJ-45) * 1	
Antenna Connector	Reverse N-type Male * 1	
Output Power	5 levels adjustable 100mW, 50mW, 30mW, 10mW, and 5mW	100mW
Sensitivity	-84dBm	
Operating Mode	AP	Bridge: Point-to-Point, Point-to-MultiPoint
Security	64/128-bit WEP encryption Password protect 802.1X security MAC filtering SSID Broadcast Disable function Protocol filtering User isolation	64/128-bit WEP encryption Password protect Protocol filtering
Frequency Band	2.4 – 2.484GHz	
Data Rate	Up to 11Mbps (1/2/5.5/11)	
Dimensions (L x W x H)	165 x 135 x 55mm	
Weight	1130g	
Environmental Specification	Operating temperature: -20 – 70 degree C Storage temperature: -30 – 80 degree C Relative humidity: 5% – 95% (non-condensing)	
Power Requirement	12V DC, 2.0A	
Electromagnetic Compatibility	FCC, CE	

▶▶ APPLICATIONS

- ❑ **Wireless ISP**
A first mile solution is now simple with PLANET's wireless devices. No wiring is needed and the bandwidth provided can be up to 11Mbps. By installing WAP-5000 equipped with omnidirectional antenna in the user's neighborhood, all users around the AP can easily connect to Internet through the access point by installing a wireless PCI card. By using a directional antenna, the distance between users and WAP-5000 can be simply a few kilometers.
- ❑ **LAN to LAN or LAN to Multi-LAN**
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. WAP-5100 is dedicated to provide a robust solution for connecting two or more buildings' wired Ethernets together. By using PLANET external antenna to extend distance, the installation is easy and the distance between buildings can be 10km or more.



▶▶ ORDERING INFORMATION

- ▶ **WAP-5000** 802.11b WLAN Outdoor AP
- ▶ **WAP-5100** 802.11b WLAN Outdoor Bridge



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