



AIRNET 54Mb 802.11b/g Low Cost Indoor Access Point with passive PoE

AIR-AP100GH is an IEEE802.11b/g compliant 11 Mbps & 54 Mbps Ethernet Wireless Access Point. The Wireless Access Point is equipped with one 10/100 M Auto-sensing Ethernet port for connecting to LAN.

AIR-AP100GH is the world's most popular multi-function access point. It features an impressive total of 5 wireless multi-function modes that are not available in normal access points. From an ordinary AP application to a Hotspot and WISP usage, you will find the AIR-AP100GH is the device you want.



AIR-AP100GH provides 64/128bit WEP encryption, WPA-PSK, WPA2-PSK and IEEE802.1x which ensures a high level of security to protect users' data and privacy. The MAC Address filter prevents the unauthorized MAC Addresses from accessing your Wireless LAN. Your network security is therefore double assured.

5 Operating Modes

AIR-AP100GH can work in 5 operating modes:

- Access Point
- Client (Infrastructure and Ad hoc)
- WDS
- AP+WDS
- Universal Repeater Mode

Web Management

The AP's is configured through web browser for easy and fast configuration. And you will not find an AP with more functions than the Netkrom series. Starting with the multi-mode function for the AP. Then we add both 802.1x accounting and authentication ports for WISP application.. The new firmware includes TX power regulation in 5 levels.

TX Power Regulation

5-level TX power adjustment lets you match different antennas for law compliance. The ability to set lower TX output power is also crucial if you want to match the AP with external power amplifier.

Extended Security Features

Netkrom has gone the extra mile to ensure wireless security. Hide SSID prevents outside users from joining the network without knowing the wireless Network's ID. WPA and 64/128-bit port WEP encryption and access control is provided to prevent unwanted intruders. Whether it's for office or home environment, the Netkrom 802.11g family brings you the maximum performance and security for today's high speed wireless network.

Features:

- ✦ Complies with IEEE 802.11b/g wireless standards
- ✦ Supports Ad Hoc mode, Infrastructure mode, AP Bridge mode, AP Bridge WDS mode and Repeater mode.
- ✦ Provides one 802.11b/g wireless Reverse SMA detachable antenna.
- ✦ 23dBm output Power.
- ✦ Supports one switch for selecting AP client mode or AP mode.
- ✦ Allows WEP 64/128 bit.
- ✦ Supports WPA-PSK, WPA2-PSK encryption.
- ✦ Supports data rate automatic fallback.
- ✦ Automatic channel selection.
- ✦ Client access control.
- ✦ Supports 802.1x/Radius client with EAP-TLS, TKIP, AES encryption.
- ✦ Supports IAPP.
- ✦ Adjustable Tx power, Tx rate, and SSID broadcast.
- ✦ ACK Timeout, WatchDog Function.
- ✦ Web interface management.
- ✦ Supports System event log and statistics.
- ✦ MAC filtering (For wireless only).
- ✦ Supports DHCP server.
- ✦ Supports passive PoE

Applications:

NetKrom AP Mode

The most basic mode of multi-function Access Point. In this mode, the AP will act as a central hub for different Wireless LAN clients. Some hotspot APs requires 802.1x authenticator function to authenticate a user before providing Internet service.

NetKrom Client Mode

WISP Outdoor AP **Client Mode**

Also known as Ethernet Client. In this mode, the AP will act as a WLAN card to connect with the remote AP. Users can connect PC or local LAN to the Ethernet port of the client mode AP. This mode is the mostly used as a CPE device for WISP subscriber.

NetKrom WDS Mode

WDS **WDS** **WDS**

WDS allows a wireless network to be expanded using multiple access points without the need for a wired backbone to link them, as is traditionally required. Connections between AP's are made using MAC addresses rather than by specifying IP assignments.

NetKrom WDS + AP Mode

WDS + AP **WDS + AP** **WDS + AP**

In addition to the WDS mode, WDS + AP permits wireless end users to get connected to any of the AP's in the wireless distribution system experiencing a constant connection when passing from one AP to another.

NetKrom Universal Repeater Mode

WISP Outdoor AP

In this mode, the AP behaves virtually the same as the WISP mode, except one thing: the AP can also send wireless signal to the LAN side. That means the AP can connect with the remote WISP AP and the indoor wireless card, and then provide IP sharing capability all at the same time!



Specifications:

Standard	IEEE 802.11b/g
Speed	54Mbps
Frequency Range	2.4GHz – 2.4835GHz ISM Band, DSSS
Wireless Operating Range	802.11b: 350m (11Mbps outdoor), 30m (11Mbps indoor) 802.11g: 120m (54Mbps outdoor), 25m (54Mbps indoor)
Network Interface	1x 10/100Mbps LAN Port
Modulation Techniques	11g Orthogonal Frequency Division Multiplexing (64QAM, 16QAM, QPSK, BPSK) 11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK) Data Rate: 54, 48, 36, 24, 18, 11, 5.5, 2, 1 Mbps
Operating Channels	13 Channels
RF Operation Mode	Access Point Bridging Access Point Client WDS AP+WDS Universal Repeater
Security	WEP 64/128-bit 802.1x Radius Support WPA/WPA2-PSK support WPA Enterprise support in AP/WDS mode
Management	HTTP/ HTTPS Web Server SNMP V2c
Antenna Type	Detachable 2 dBi Dipole Antenna with Reversed SMA Connector
LED indicators	Power, LAN, WLAN
Power Requirements	12VDC
Output Power	23dBm Adjustable in 5 levels
Certifications	FCC, CE
Environmental Requirements	Operating temperature: 0~50°C Operating humidity (non-condensing): 5~90% Storage temperature: -20~70°C
Dimensions (H x W x D)	111x79x30 mm (LxWxH)

Ordering Information :

- AIR-AP100GH** AIRNET 54Mb 802.11b/g Low Cost Indoor Access Point with passive PoE (23dBm/200mW)