

Model No. AP970X : 802.3af PoE 500mW Wireless-G Ceiling AP/Bridge



AP970X

High Lights

- 500mW at 2.4Ghz Output Power
- Operation Modes : Access Point, WDS (Repeater , Bridge)
- Maxmum Security with 802.1x, WPA, and AES
- Integrated IEEE 802.3af Power over Ethernet (PoE)
- Support 8 Multiple-BSSID
- Advanced Wireless Setting (ACK/CTS Timeout support , Slot Time)
- Business-class security and central management
- Support Hardware Auto Push Button

Simplify the process of configuring security on Wireless Network

- Optional Mounting Kits :
 - MKT-INW : Fixed Wall Mount kits

The AP970X 802.11B/G 500mW wireless access point come with optional mounting kits which is suitable for various wall mounted positions , and bring the benefits of both a RJ-45 wired connection as well as WiFi wireless connection. The AP970X can be installed and configured easily into any new wireless network or integrated within an existing wired network resulting in a more flexible and cost-effective wireless deployment. And, a network administrator can centrally manage the AP980X via a Web browser or an SNMP MIB browser. With included PoE, power and data are supplied to the



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unit using CAT5 Ethernet cable.

The AP970X is ideal for institutions that are already wired for CAT5 and now need both a wired connection as well as a wireless solution in each room. The AP970X has an RJ-45 connector on the front of the unit so a user will not lose their wired connection while obtaining a wireless connection in each room.

AP970X is compliant with the latest wireless industrial security standards that are required in those tightly secured enterprise network environments. Its Wireless Distribution System (WDS) feature allows for flexible extension of wireless coverage.

AP970X's easy-to-use web-based administrative interface make the configuration task and client management simple and straightforward. In addition, Web and SNMP management interfaces are also supported by AP970X.

The built-in software interfaces of AP970X has allow for communicating with other types of network management servers. When managed by backend controlling gateway, AP970X can further provide enhanced values in a well managed WLAN solution.

Feature

Wireless Architecture Mode :

- AP Mode
- WDS Mode (Repeater/Brdige)

Access Point Feature

- Number of ESSID : 8
- Number of associated clients per AP : 32
- Three Mode : AP Mode , WDS Mode
- WDS Mode : to extend wireless coverage by connecting wirelessly to another WDS capable AP. Support up to 8 WDS links
- Slot Time , ACK/CTS Timeout
- RSSI threshold support
- TX burst support
- Beacon interval: adjustable to best adapt to the deployment environment
- IAPP : to facilitable faster roaming for the stations among different APs nearby



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- 802.11n protection : to let the transmission rate of associated 802.11g and 802.11b not to be affected with surrounding existence of 802.11b stations
- RTS and fragmentation control
- Adjustable transmission power : 9 Levels
- Wireless site survey : for scanning the surrounding access points for connection
- VLAN tag support

Authentication/Encryption (Wireless Security)

- Data encryption: WEP(64/128/152-bits) , WPA/WPA2 with TKIP or AES-CCMP
- User Authentication : WEP, IEEE802.1X,WPA-PSK,WPA-Enterprise , MAC ACL
- Setting for TKIP/CCMP/AES key's refreshing period
- Support IEEE802.11 mixed mode , open and shared key authentication
- Hidden ESSID: broadcast SSID option can be turn off to prevent SSID broadcast to the public
- Station Isolation setting : when enabled , all stations associated with this AP can not communicate with each other
- Support data encryption over WDS link

Quality of Service

- DiffServ/TOS
- IEEE802.11p/COS
- IEEE 802.11Q Tag VLAN priority control
- IEEE802.11e WMM

Management

- Web-Based management interface
- Remote configuration and management
- Remote firmware upgradeable
- Software one-button-click to reset back to factory defaults
- Utilities for system configuration backup and restoration
- SNMP MIBII support (v2c/v3)
- NTP time synchronization
- DHCP client

- Syslog client



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- Support Event log
- Support statistics on total transmission encountered and transmitting error occurred

AP970X Hardware Specifications	
Base Platform	AR2315
Clock Speed	180 MHz
Wireless Radio	802.11bg
Auto Button	Hardware Auto Push Button
Reset Switch Built-in	Push-button momentary contact switch For Simplify the process of configuring security on Wireless Network
Standards Conformance	IEEE 802.3 / IEEE 802.3u
Ethernet Configuration	<ul style="list-style-type: none"> ● 10/100BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) ; Auto MDI/MDI-X , ● Support IEEE 802.3af Active Power Over Ethernet X 1
SDRAM	On board : 16 Mbytes
Flash	On board : 4 Mbytes
Built-In LED Indicators	1x Power, 1x LAN, 1x Wireless
Wireless Specifications	
Network Standards Conformance	IEEE802.11 b /g compliant
Data Transfer Rate	IEEE802.11b : 1 / 2 / 5.5 / 11Mbps (auto sensing) IEEE802.11g : 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54(auto sensing)
Frequency Range	IEEE802.11b/g : 2.412 ~ 2.462GHz (USA) 2.412 ~ 2.484GHz (Japan) 2.412 ~ 2.472 GHz (Europe ETSI) 2.457 ~ 2.462 GHz (Spain) 2.457 ~ 2.472 GHz (France)
Media Access Protocol	CSMA / CA with ACK
Modulation Method	IEEE802.11b : DSSS (DBPK,DQPSK,CCK) IEEE802.11g : OFDM(64-QAM,16-QAM,QPSK,BPSK)
Operating Channels	802.11b/g : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France



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Transmit Power Variation	work on Demand Network on Demand Network on Demand Network on Demand Network on Demand 27 dBm@6MB/1MB, 23dBm@54MB
Receiver Sensitivity	-97dBm@1Mbps, -93dBm@6Mbps,-89dBm@11Mbps,-74dBm@54Mbps
Frequency Response flatness	±1dB over operating range
Environmental & Mechanical Characteristics	
Operating Temperature	-20 °C ~ 50 °C
Storage Temperature	-20 °C ~ 70 °C
Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Built-In Antenna Gain	3dBi Chip Antenna
Input Power	12 – 64 VDC
System Power Consumption	9W
Power Supply	110 – 220V AC Power ; 12 VDC, 1.5A input. Support Power Over Ethernet (48V/0.3 A)
Unit Dimensions	129.98 (H) x 79.98(W) x 67(L) mm (Main Unit with Plate) 79.98(H) x 34(W) x 67(L) (Main Unit) 129.98(H)x7.98(W)x8.8(L) (Plate)
Unit Weight	60g
Form Factor	Ceiling Type
Mounting Kits	MKT-INW : Fixed Wall Mount kits
Certifications	ROHS compliant