

## **Model No. AP961X : Industrial Wall-mounted**

**500mW PoE Managed Wireless-G AP/Bridge**



### **High Lights**

- ✓ **2.4GHz , IEEE 802.11 b/g**
- ✓ **Operation Modes: Access Point , WDS (Repeater ,Bridge )**
- ✓ **Support RF Output Power : 27dBm ,**
- ✓ **Support RF Receiving Sensitivity: -97dBm**
- ✓ **Multiple 8 B-SSID capability**
- ✓ **VLAN tag over WDS**
- ✓ **Business-class security and central management**
- ✓ **Metal case with IP50 compliance for industrial usage**
- ✓ **Anti-Static Electricity Grounding System**
- ✓ **Input Power by redundant input power 12-68 VDC Power Input (Screw Terminal Block) or Power Over Ethernet , DC Jack**
- ✓ **Wall-mounted and DIN-Rail (Optional)**

Aspiring to provide the best performance/price ratio for both SMB and industrial applications, AP961x is uniquely designed for Wall Mount with metal case and IP50 rating for a fast, robust, secure and business class access point with the ultimate in power transmission at 500mW output power.



**LanReady Technologies Inc.**

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AP961X offers one of wireless greatest barriers which is obtaining a strong signal at greater distance, and providing a real clean and improved power output through it's radio, rather than trying to achieve long range via antenna manipulation. This is possible through a sophisticated amplification technique where both the sending and receiving side on the AP951x are greatly enhanced and can travel further through walls and obstructing obstacles thereby offering a quality experience for all clients.

With this superior transmit output power and receiving sensitivity this can reduce the cost of installation and equipment as the number of wireless hardware required to deploy a large wireless network are reduced. It is perfect for large scale installations such as factories, warehouses, hotels, marinas, hospitals, large homes, hotspot and more.

With both the send and receive high power sensitivity the AP961x provides a clean and powerful RF signal which provides the highest bandwidth performance. It is able to provide a constant and continuous throughput rate which is crucial for wireless applications such as video surveillance, IPTV and digital frames to reduce any drop outs in packets or frames to offer an enhance quality experience.

AP961x is compliant to the latest wireless standards that are required in highly secured enterprise networking environments. Its Wireless Distribution System (WDS) feature allows for flexible extension of wireless coverage. It can be power via three alternative methods from either the Single LAN port for Power over Ethernet (PoE), DC jack or Screw Terminal Block (STB) providing the ability to back up each other with failover redundancy function, giving AP951x reliable connectivity in mission critical situations.

AP961x is easy-to-use and install with web-based administrative interface making configuration and client management simple and easy. In addition, management interfaces such as CLI and SNMP are also supported by AP961x.

AP961x built-in software interface allows for communicating with other types of network management servers. AP961x can further provide enhanced values in a well managed WLAN solution by our backend controlling gateway.



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## Specifications

### Wireless Architecture Mode

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AP Mode , WDS Mode (Bridge /Repeater)

### Wireless Feature

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Transmission power control : 9 levels

Channel selection: Manual or Auto

No of associated clients per AP: 32

Setting for max no of associated clients: Yes

No of BSSID (Virtual AP): 8

No. of WDS setting : 8

Preamble settings: Short/Long

Setting for 802.11b/g or 802.11g only

Setting for transmission speed

Setting for max no of wireless re-transmission

IEEE 802.3f IAPP (Inter Access Point Protocol) , had over users to another AP

IEEE 802.3h-Transmission Power Control

IEEE 802.11d-Multi country roaming

### Authentication/Encryption (Wireless Security)

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Zone Privacy for client to client locking (User Isolation)

Blocks client to client discovery within a specified VLAN for public Hotspot

WEP64/128 Bit

EAP-TLS+ Dynamic WEP

EAP-TTLS +Dynamic WEP

PEAP/MS-PEAP + Dynamic WEP

WPA (PSK + TKIP)

WPA(802.1X certification +TKIP)

802.11i WPA2 (PSK+CCMP/AES)

802.1i WPA2(802.1x certification+CCMP/AES)

Setting for TKIP/CCMP/AES key's refreshing period

Hidden ESSID support

Setting for "Deny Any" connection request

MAC Address Filtering (MAC ACL)

No. of registered RADIUS server : 1

IEEE802.11 mixed mode support open and shared key authentication

VLAN assignment on BSSID



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**Support VLAN tag over WDS**

**Quality of Service**

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- DiffServ /TOS
- IEEE 802.1p /COS
- IEEE 802.1Q Tag VLAN priority Control
- IEEE 801.11e WMM

**System Administration**

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- Web-based administration
- Change IP setting
- Change Password setting
- Firmware upgrade
- Load Default setting
- Remote Link Test –Display connect statistics
- SNMP Traps to a list of IP number
- Administrative Access : HTTP /WEB
- Even Log
- Support DHCP Client
- Support SNMP v2c/v3
- Support MIB-II
- Support Telnet
- Support TFTP
- Command Line Interface (CLI)

<b>A350 Hardware Specifications</b>	
<b>Base Platform</b>	AR2315
<b>Clock Speed</b>	180 MHz
<b>Wireless Radio</b>	802.11bg
<b>Serial Port</b>	1 * DB9 (Consol)
<b>Reset Switch Built-in</b>	Push-button momentary contact switch
<b>Standards Conformance</b>	IEEE 802.3 / IEEE 802.3u
<b>Ethernet Configuration</b>	10/100BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) Auto MDI/MDI-X enabled ,Passive Power Over Ethernet Compatible , Auto Fail over
<b>SDRAM</b>	On board : 16 Mbytes
<b>Flash</b>	On board : 4 Mbytes



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<b>Built-In LED Indicators</b>	work on Demand Network on Demand Network on Demand Network on Demand Network on Demand 1x Power , 1x LAN, 3 x WLAN (Wireless Strength Indication)
<b>Wireless Specifications</b>	
<b>Network Standards Conformance</b>	IEEE802.11 b /g compliant
<b>Data Transfer Rate</b>	IEEE802.11b : 1 / 2 / 5.5 / 11Mbps (auto sensing) IEEE802.11g : 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54(auto sensing)
<b>Frequency Range</b>	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)
<b>Media Access Protocol</b>	CSMA / CA with ACK
<b>Modulation Method</b>	IEEE802.11b : DSSS (DBPK,DQPSK,CCK) IEEE802.11g : OFDM(64-QAM,16-QAM,QPSK,BPSK)
<b>Operating Channels</b>	802.11b/g : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France
<b>RF Output Power</b>	500mW
<b>Transmit Power Variation</b>	27 dBm :6MB/1MB, 23dBm:54MB
<b>Frequency Response flatness</b>	±1dB over operating range
<b>Receiver Sensitivity</b>	1Mbps: -97dBm, 6Mbps:-93dBm,11Mbps:-89dBm,54Mbps:-74dBm
<b>Environmental &amp; Mechanical Characteristics</b>	
<b>Operating Temperature</b>	-20 °C ~ 60 °C
<b>Storage Temperature</b>	-20 °C ~ 70 °C
<b>Operating Humidity</b>	10% to 80% Non-Condensing
<b>Storage Humidity</b>	5% to 90% Non-Condensing
<b>Antenna Connector</b>	2 * SMA Reverse -Type Connector
<b>Power Consumption</b>	9W
<b>Overload Current Protection</b>	1.1A
<b>Input Power</b>	12-68 VDC
<b>Connector</b>	DC-In Jack , Screw Terminal Block , RJ 45 (Power Over Ethernet)
<b>Power Supply</b>	AC Input : 110 – 220V AC Power



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	work on Demand Network on Demand Network on Demand Network on Demand Network on Demand DC Output : 12 VDC, 1.5A input
<b>Unit Dimensions</b>	204 x 134 x 35 (mm) (Width x Depth x Height)
<b>Unit Weight</b>	610g
<b>Form Factor</b>	Wall Mount Ability, DIN RAIL (Optional) , Metal case compliant with IP50 standard