

AIR AP940 Wireless Access Point for Enterprise solutions

AIR AP940

Boost your wireless signal and enjoy ultimate coverage

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Quick Overview

AirPro AIR-AP940 is a high-performance Wi-Fi 6 enterprise AP designed for the majority of indoor scenarios. With the built-in IoT module, enterprise customers can be ready for future IoT expansion to boost operational efficiency and customer experience.

- Maximize ROI (Lifetime Free Cloud Managemen).
- Hybrid Management (Cloud / Controller / Standalone).
- Fast Provisioning by AirPro Cloud.
- Automated Radio Optimization by Big Data Technology.
- Stylish Design (Integrated Antenna).
- Dual-band access points in AirPro SME AP Series.

What does this product do?

AirPro truly understands the challenges of having the best class of Wi-Fi along with ultra-high-performance. AIR-AP940 supports concurrent dual-band dual-radio (2x2:2 in 2.4GHz, 4x4:4 in 5GHz), up to 6 total spatial streams, and a maximum of 5.2Gbps wireless throughput. Taking the advantage of Wi-Fi 6 OFDMA Modulation, MU-MIMO, and BSS Color Spatial Reuse, the AIR-AP940-guarantees minimal signal interference and a maximum of 1024 client connections.

Additionally, AIR-AP940 is IoT ready with an integrated module of BLE, without the need for an external module and additional investment. With a total of 3 built-in Gigabit LAN ports, the LAN3 port is specially designed for external IoT sensor connection with PoE out (passive) feature. Therefore, no extra power adaptor is needed for the sensor.

Upon the uprising challenges of management efficiency and wireless security, all AirPro enterprise APs support hybrid management mode. Either deployed as standalone AP (Fat mode) or managed AP (Fit mode), the AP will detect the operation mode automatically without extra effort on firmware upgrade. For additional security and operation, we recommend the enterprise customers to choose either one of the below wireless controller options depending on the functionality and capacity:

Ultra-High Performance Wi-Fi for SMEs AirPro Public Cloud for SME -

- Targeted for the SME segment with integrated captive portal, authentication (such as PPSK for employees, Facebook, voucher, account, etc.), and reporting features.
- Together with AirPro Cloud, SME customers can provision and manage their networks at fingertips.

AirPro Hybrid Cloud for Enterprise Office and Campus -

- Targeted for enterprise office and campus with single or multiple sites and high-density AP deployment.
- The controller appliances are installed at the customer's site with fully integrated wireless management and authentication features, supporting up to 5000 APs per cluster.
- Optionally, the cloud management platform allows for value-added features like centralized device configuration and monitoring, Al radio (RF) optimization, reporting, etc..

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AirPro Private Cloud for ISP, Government, MNC-

- Targeted for ISP/MSP, government, or multi-national corporation (MNC) with diverse customer sites and demand on the integration of their billing, portal, and security systems.
- The AirPro Cloud service supports unified device management, not only for wireless access points but also for switches and gateway devices.

Enterprise Support for SME-

- AirPro SME products are all bundled with an exclusive 2-year product warranty free of charge.
- AirPro customers can also enjoy complimentary professional online support which is staffed with AirPro certified experts to respond to your problems efficiently.

AirPro AIR-AP940 is specially designed for dense Wi-Fi usage environments like Restaurant, Hotel Reception, Enterprise Office, MNC, Government & Conference Room, Student Lecture Hall, etc. Upto1024 clients per AP supported by AIR-AP940, max wireless throughput up to 5.2Gbps, this is taken advantage of IEEE 802.11b/g/n & 802.11a/n/ac/ax standard and unique Concurrent Dual-band design, with the 2.4G radio and 5G radio for client access at concurrent, each radio can effectively load balance the traffic without bringing additional interference for the environment.

Key Feataures

- Max 5.2Gbps (Total 6 Spatial Streams) with Concurrent Dual-Band Design.
- Max 1024 Client connections.
- OFDMA, MU-MIMO, and BSS Technology for minimal wireless signal interference.
- IoT Ready: Integrated with BLE module and one IoT extension port with PoE Out (passive).
- Al Wireless Optimization: one-click optimization powered by AirPro WIS technology.
- Hybrid Management: support standalone AP to over thousands of APs with deployment options of appliances, private cloud, or public cloud service.
- Mobility Management: Free Cloud private cloud or AirPro Public Cloud customers.



Flexible Hybrid Management -

- AirPro SME AP offers the flexibility for SME to choose the mode of management.
- It supports standalone AP to over thousands of APs with deployment options of appliances, private cloud, or public cloud service
- For the AirPro Cloud option, no extra cost or firmware upgrade is required, which saves company expenses and time.

Stylish Design & Mobility Management -

- SME APs all employ a simplistic and stylish design to fit different scenarios.
- The APs feature an integrated antenna design and hidden LAN port along with hidden cabling to hide the messy wires, which gives a professional and simplistic deployment style that is less noticeable.

PPSK Enterprise Authentication -

- For internal staff, it is hassled to maintain the predefined PSK and distribute it among them.
- Especially for the offboarding employees, potential Wi-Fi PSK leaked out could be harmful to your network.
- With AirPro PPSK, you now can easily provide different Wi-Fi passwords for each user.
- It is tied to individual end-user devices like laptops or smartphones and the same password can't be used by others.
- The possibility of a Wi-Fi password leak is eliminated completely.

AP AP

Relevant Standard -

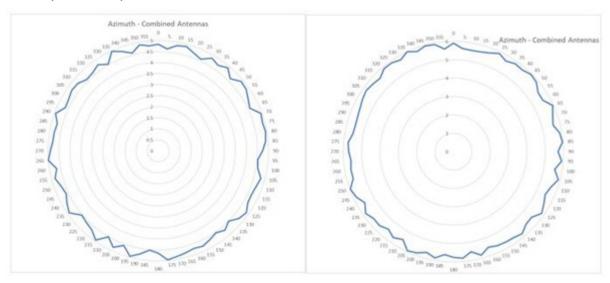
- Wi-Fi Alliance Certification (Support)
- Radio Standard (SRRC, EN300 328, EN301893)
- EMC Standard (GB9254, EN301489 | EN 55032, EN 61000, EN 55035)
- Safety Standard (GB4943, EN/IEC 60950-1)
- Health Standard (EN 62311)





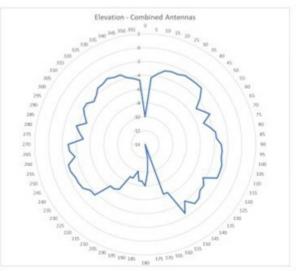
Antenna Patterns

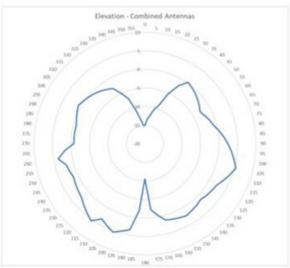
Horizontal planes (top view)



Antenna Patterns

Vertical (elevation) planes (side view, AP facing down)







Hardware

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TECHNICAL SPECIFICATIONS

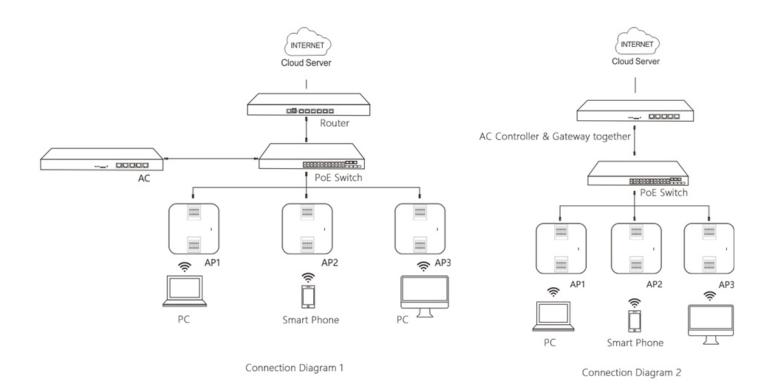
Model	AIR Ap940
Basic Spec	
Radio	Dual-radio dual-band
	Radio 1: 2.4G 11ax: 2×2 MIMO
	Radio 2: 5G 11ax: 4x4 MIMO
Protocol	Supports standard 802.11ax, dual-radio dual-band, concurrent 802.11ax
	and 802.11a/b/g/n/ac
Operating Bands	802.11b/g/n: 2.4G ~ 2.483GHz
	802.11a/n/ac/ax: 5.150~5.350GHz, 5.47~5.725GHz,
	5.725~5.850GHz (vary depending on different countries)
Spatial Streams	Up to 6: 2×2:2 in 2.4GHz, 4×4:4 in 5GHz
Max Throughput	Maximum throughput of 2.4G: 400Mbps
	Maximum throughput of 5G: 4.8Gbps
	Maximum throughput per AP: 5.2Gbps
Modulation Receiver Sensitivity	OFDM: BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps,
	64-QAM@48/54Mbps
	DSSS: DBPSK@1Mbps, DQPSK@2Mbps, and CCK@5.5/11Mbps
	MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM and
	1024QAM OFDMA (up to 1024-QAM)
	11b: -96dBm (1Mbps), -93dBm (5Mbps), -89dBm (11Mbps)
	11g: -91dBm (6Mbps), -85dBm (24Mbps), -80dBm (36Mbps), -74dBm (54Mbps)
	11n: -90dBm (MCS0), -70dBm (MCS7), -89dBm (MCS8), -68dBm (MCS15)
	11ac HT20: -88Bm (MCS0), -63dBm (MCS9)
	11ac HT40: -85dBm (MCS0), -60dBm (MCS9)
	11ac HT80: -82dBm (MCS0), -57dBm (MCS9)
	11ax Ht80: -82dBm (MCS0), -57dBm (MCS9), -52dBm (MCS11)
	11ax Ht160: -80dBm MCS0), -49dBm (MCS11)
Antenna	Integrated antenna design (5th gen X-Sense patent smart antenna)
Antenna Gain	2.4G: 3dBi
	5G: 3dBi
Service Ports	3 10/100/1000M Ethernet ports (The LAN1 Port supports PoE in,
	LAN3 Port supports LAN & IoT module expansion with PoE out)
Management Port	1 console port
USB	1 USB 2.0 port
IoT Capability	BLE
Reset Button	Support
Anti-theft Lock	Support
LED Indicator	1 LED indicator (Supports red, green, blue, orange and flashing mode,
	which indicates device access.
	The indicator can be switched off to silent mode.)
Transmit Power	≤100mw (20dBm) (Vary depending on different countries)
Adjustable Power	1dBm
Power Supply	Local power supply (DC 48V/1A) Power adapters are sold separately), PoE (802.3af)
	PoE (802.3af) – Not recommended: 5G radio is degraded to 2x2 MIMO, and the
	PoE out of the LAN3/ IoT port is disabled
	< 25.4W
Power Consumption PHYSICAL SPECIFICATIONS	NEO-TIT
	Operating Temperature: -10°C to 50°C
Temperature	
Humidity	Storage Temperature: -40°C to 70°C Operating Humidity: 5% to 95% (non-condensing)
In a Hating Mark	Storage Temperature: 5% to 95% (non-condensing)
Installation Mode	Ceiling/wall-mountable
Dimensions (W x D x H)	220mm ×220mm x48.85mm (Height of the AP only, excluding the mount kit)
Weight	1.30kg
IP Rating	lp41
MTBF	250,000 hours
Certifications and Compliance	
Safety Standard	GB4943, EN/IEC 60950-1
Safety Standard EMC Standard	GB9254, EN301 489, EN 55032 , EN 61000, EN 55035

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TECHNICAL SPECIFICATIONS

Software Specifications WLAN	
Marrian all automon AD	4004
Maximum clients per AP	1024 Up to 32
BSSID capacity SSID hiding	'
· ·	Support
5G Priority (Band Steering) Configuring the	Support
authentication mode,	
encryption mechanism	Support
and VLAN attributes	Support
for each SSID	
Remote Intelligent	
Perception Technology	Support
(RIPT)	Support
Intelligent device	
recognition technology	Support
Intelligent load balancing	Заррога
based on the number	Support
of users or traffic	Support
STA control	SSID/radio-based
Bandwidth control	STA/SSID/AP-based bandwidth control
Data encryption	WPA (TKIP), WPA-PSK, WPA2 (AES), WPA3, WEP (64/128 bits)
PSK and web authent.	Support
PPSK authentication	Support
(For Employee)	Support (require wireless controller)
802.1x authentication	Support (require wireless controller)
PEAP authentication	Support
	Support White list static (dynamic blocklist
Data frame filtering User isolation	White list, static/dynamic blacklist
Rogue AP detection and	Support
	Cummant
Countermeasure Dynamic ACL assignment	Support
Dynamic ACL assignment RADIUS	Support Support
CPU Protection Policy	Support
(CPP)	Support
Network Foundation	Support
Protection Policy (NFPP)	Support
Frotection Folicy (NFFF)	Support
IP	
IPv4 and IPv6 address	Support
Multicast routing	Multicast to unicast conversion
DHCP service	DHCP Snooping, Option 82, Server, Client
Management and	
Maintenance	
Supported wireless	AirPro WS Series Wireless Controller
LAN controllers	AirPro MACC-Base Software Controller
	AirPro Cloud (Public Cloud)
Management protocol	Telnet, SSH, TFTP, Web
Wireless Intelligent	
Al Optimization Service	Support
(WIS)	
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SNMP	SNMPV1,V2c,V3
SNMP	SNMPV1,V2c,V3 Support
	Support
SNMP Syslog / Debug	

AirPro Wi-fi Solution





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