Air Pro ®

Simple | Secure | Trusted

AIR AP940 Wireless Access Point for Enterprise solutions
Boost your wireless signal and enjoy ultimate coverage

PRODUCT OVERVIEW

AirPro AIR-AP940 is a high-performance Wi-Fi 6 enterprise AP designed for the majority of indoor scenarios.

FEATURES

- 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-highperformance. 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 2.97Gbps wireless throughput. Taking the advantage of Wi-Fi 6 OFDMA Modulation, MU-MIMO, and BSS Color Spatial Reuse, the AIRAP940- guarantees minimal signal interference and a maximum of 1024 client connections.

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, AI radio (RF) optimization, reporting, etc.

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. Upto 256 clients per AP supported by AIR-AP940, max wireless throughput up to 2.97Gbps, 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.
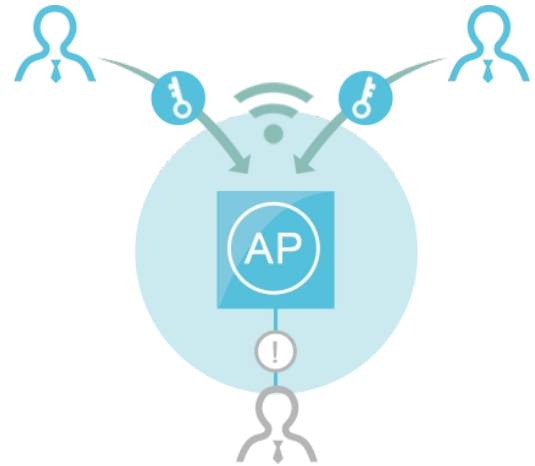
Flexible Hybrid Management -
- AirPro SME APoffers the flexibility for SME to choose the mode of management.
- It supports standalone AP to over thousands of APs with deployment options of appliances, private cloud, or public cloud service.
- For the AirPro Cloud option, no extra cost or firmware upgrade is required, which saves company expenses and time.
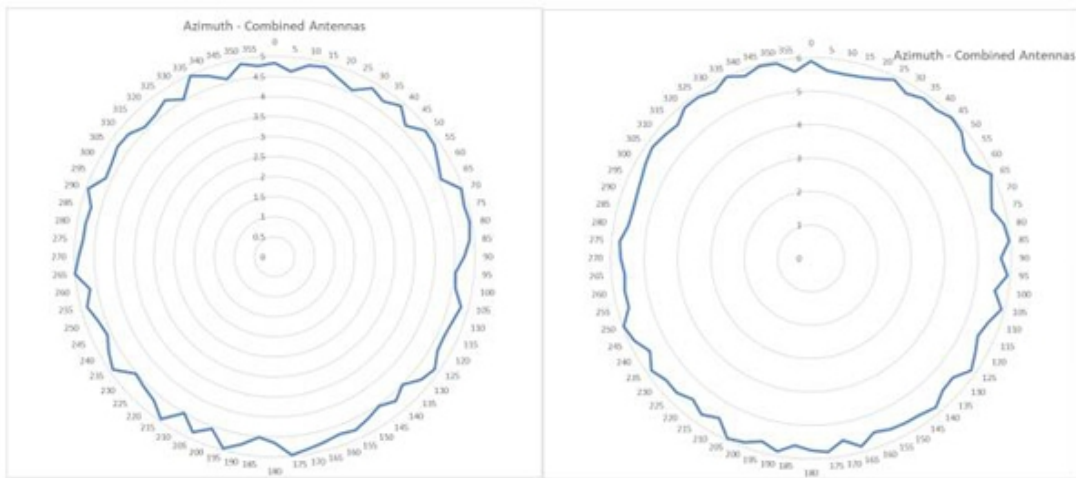
Stylish Design & Mobility Management -
- SME APs all employ a simplistic and stylish design to fit different scenarios.
- The APs feature an integrated antenna design and hidden LAN port along with hidden cabling to hide the messy wires, which gives a professional and simplistic deployment style that is less noticeable.
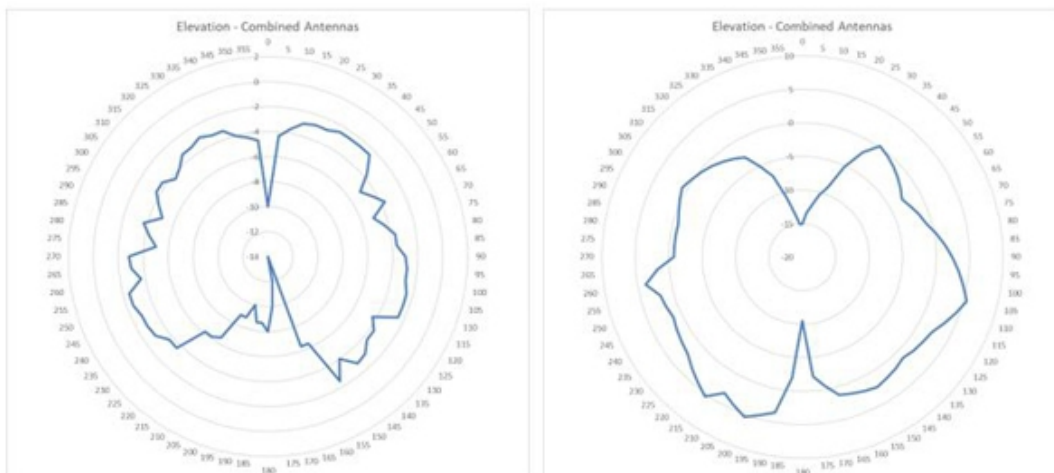
PPSK Enterprise Authentication -
- For internal staff, it is hassled to maintain the predefined PSK and distribute it among them.
- Especially for the offboarding employees, potential Wi-Fi PSK leaked out could be harmful to your network.

- 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.

Antenna Patterns

Antenna Patterns
Vertical (elevation) planes (side view, AP facing down)
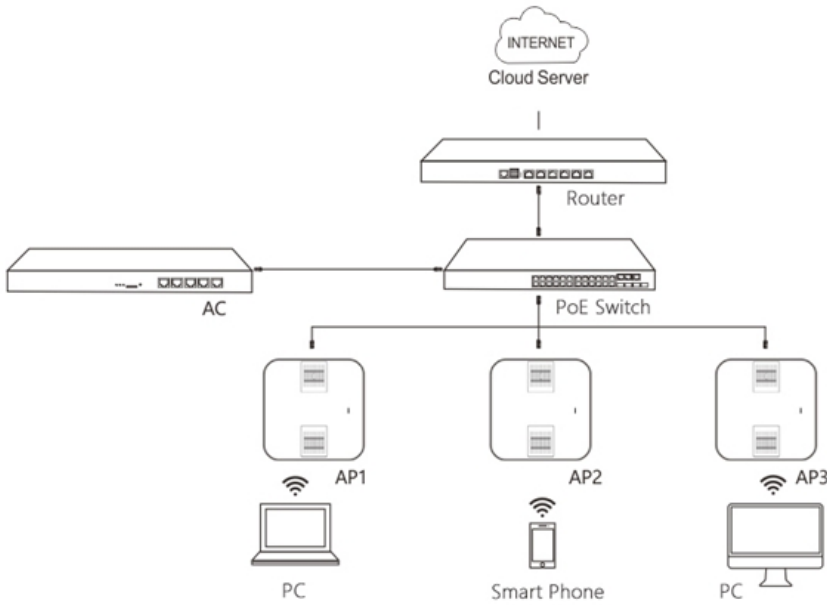
PRODUCT SPECIFICATIONS

Hardware Specifications

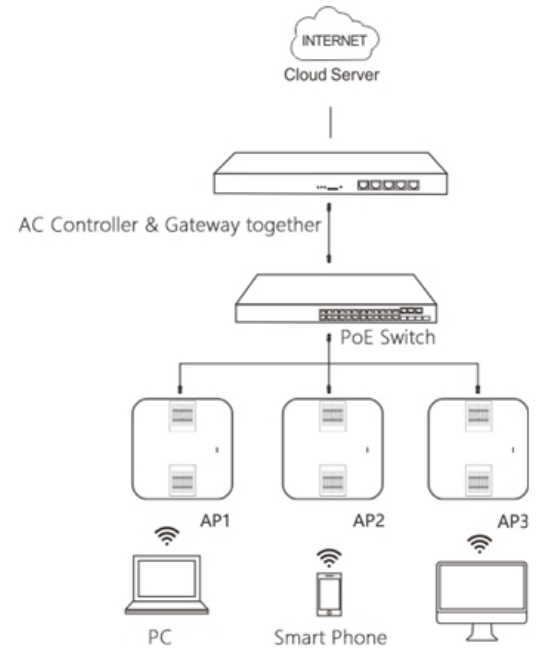| Item	AIR AP940
Basic Spec	
Radio	Dual-radio dual-band
	Radio 1: 2.4G 11ax: 2×2 MIMO
	Radio 2: 5G 11ax: 4x4 MIMO
Protocol	Supports standard 802.11ax, dual-radio dual-band, concurrent 802.11ax
	and 802.11a/b/g/n/ac
Operating Bands	802.11b/g/n: 2.4G ~ 2.483GHz
	802.11a/n/ac/ax: 5.150~5.350GHz, 5.47~5.725GHz,
	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: 575Mbps
	Maximum throughput of 5G: 2.4Gbps
	Maximum throughput per AP: 2.97Gbps
Modulation	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)
Receiver Sensitivity	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	1* 10/100/1000M BASE-T Ethernet Port, PoE In (Support IEEE 802.3af/at)
	Full Spectrum Operation in IEEE 802.3af Mode
	1 1G/2.5G SFP Port
Management Port	1 console port
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
Power Consumption	< 25.4W
PHYSICAL SPECIFICATIONS	
Temperature	Operating Temperature: -10°C to 50°C
	Storage Temperature: -40°C to 70°C
Humidity	Operating Humidity: 5% to 95% (non-condensing)
	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	Ip41
MTBF	250,000 hours
Certifications and Compliance	
Safety Standard	GB4943, EN/IEC 60950-1
EMC Standard	GB9254, EN301 489, EN 55032 , EN 61000, EN 55035
Health Standard	EN 62311
Radio Standard	SRRC, EN300 328, EN301 893

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AIR AP940
WLAN	
Maximum clients per AP	200
BSSID capacity	Up to 32
SSID hiding	Support
5G Priority (Band Steering) Configuring the authentication mode,	Support
encryption mechanism and VLAN attributes for each SSID Remote Intelligent	Support
Perception Technology (RIPT) Intelligent device	Support
recognition technology Intelligent load balancing	Support
based on the number 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. PPSK authentication	Support
(For Employee)	Support (require wireless controller)
802.1x authentication	Support
PEAP authentication	Support
Data frame filtering	White list, static/dynamic blacklist
User isolation	Support
Rogue AP detection and countermeasure	Support
Dynamic ACL assignment	Support
RADIUS	Support
CPU Protection Policy (CPP)	Support
Network Foundation Protection Policy (NFPP)	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 LAN controllers	AirPro WS Series Wireless Controller AirPro Controller AirPro Cloud (Public Cloud)
Management protocol Wireless Intelligent	Telnet, SSH, TFTP, Web
AI Optimization Service (WIS)	Support
SNMP	SNMPV1,V2c,V3
Syslog / Debug	Support
FAT/FIT/Cloud mode	Factory default firmware supports
Switching Mode	FAT (standalone) or FIT mode (WS controller) or Cloud mode management

AirPro Wi-fi Solution

Connection Diagram 1

Connection Diagram 2

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