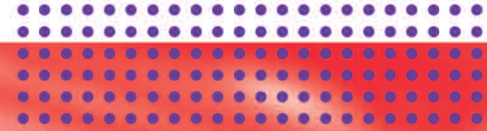


OmniAccess AP124, OmniAccess AP125

DUAL-RADIO MIMO ACCESS POINTS



The Alcatel-Lucent OmniAccess™ AP124 and AP125 (OAW-AP124 and OAW-AP125) are high-performance 802.11n (3x3) MIMO, dual-radio (concurrent 802.11a/n + b/g/n) indoor wireless access points capable of delivering combined wireless data rates of up to 600 Mbps. These multi-function access points provide wireless LAN access, air monitoring, and wireless intrusion detection and prevention over the 2.4-2.5GHz and 5GHz RF spectrum.

These access points work in conjunction with Alcatel-Lucent OmniAccess WLAN switches to deliver high-speed, secure user-centric network services in education, enterprise, finance, government, healthcare, and retail applications.

To protect access points installed in unsecured areas, or during use in distributed encryption modes of operation, security credentials can be stored in a trusted platform module (TPM) microcontroller. The TPM specification was defined by the TPM subgroup of the Trusted Computing Group (TCG) for the secure generation and storage of cryptographic keys, and is widely implemented on devices for which high security is paramount. The TPM vault protects the access point against attack and physical theft.

The OmniAccess AP120 family features dual 10/100/1000 Ethernet interfaces and operates from standard 802.3af as well as high-power PoE+ and 802.3at power-over-Ethernet (PoE) sources. The OAW-AP124 features detachable antenna interfaces while the OAW-AP125 features integral 3x3 MIMO dual-band antenna elements.



FEATURES

- IEEE 802.11n (draft2.0) 3x3 MIMO access point
- Intelligent PoE power sourcing
- Dual Ethernet interfaces

BENEFITS

- High speed wireless with up to 300Mbps of throughput. Improved coverage compared to 802.11a/b/g technologies. Backward compatibility with 802.11a/b/g Wi-Fi clients
- Operates with existing IEEE 802.3af compliant PoE devices as well as PoE+ and IEEE 802.3at devices.
- High availability with dual homing of the access point to the wireline infrastructure.

FEATURES

- Fully featured, enterprise grade access point
- TPM vault

BENEFITS

- Integral part of the OmniAccess Wireless LAN product family to offer enterprise wide high speed wireless deployments, high performance branch and small office deployments.

Supports key enterprise grade functions such as dynamic RF management (taking into account 802.11n spectral width), air monitoring over 2.5 and 5GHz spectrum, wireless intrusion prevention, call admission control (CAC), QoS, and battery life extension for converged communication.
- When encryption keys are stored at the access points level (remote access point deployments mostly) the TPM vault protects cryptographic keys in case of AP theft or attack.

TECHNICAL SPECIFICATIONS

Application

- High-performance 802.11n enterprise campus or branch office applications, high-performance secure-jack, indoor use.

Operating mode

- Multi-service concurrent 802.11a/n + b/g/n WLAN, 802.11a/b/g/n air monitor, hybrid combination of WLAN/AM and remote AP or secure mesh point. Configurable to support 802.11n draft 2.0 HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n.

Radios

- Dual radio - software configurable to support 2.4-2.5 GHz + 5 GHz

RF management

- Automatic transmit power and channel management control with auto coverage hole correction via ARM

Mobility service delivery

- Virtual AP services
 - Supports up to 32 SSIDs (service set identifiers) per access point
 - Multiple captive portals per SSID
 - Supports any combination of encryption/authentication type per SSID
 - Session level quality of service (QoS)
 - VLAN load balancing
 - Guest account creation/management
- Voice services
 - Wireless multi-media QoS (WMM)
 - 802.1p and DSCP to WMM AC tagging
 - Upstream traffic prioritization
 - Call Admission Control (CAC)

- Traffic classification/session bandwidth reservation (T-SPEC/TCLAS)
- Unscheduled power save delivery (U-APSD)
- Stateful session awareness (soft voice client QoS)
 - SIP
 - NOE
 - Cisco Skinny
 - Vocera
- Spectralink Voice Prioritization (SVP)
- Support for multicast filtering
- Battery boost
- Priority queuing
- Voice-aware scanning support in ARM

802.11a Radio Specifications

- Operating frequency: 5.150– 5.950 GHz*
- Available channels: WLAN switch-managed, dependent upon configured regulatory domain
- Modulation: Orthogonal frequency division multiplexing (OFDM)
- Transmit power
 - 20 dBm / 100 mW (dependent upon configured regulatory domain)
 - Configurable in increments of 0.5 dBm
- Association rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

802.11b Radio Specifications

- Operating frequency: 2.4–2.5 GHz
- Available channels: WLAN switch-managed, dependent upon configured regulatory domain
- Modulation: Direct-sequence spread-spectrum (DSSS)

- Transmit power
 - 20 dBm / 100 mW (dependent upon configured regulatory domain)
 - Configurable in increments of 0.5 dBm
- Association rates (Mbps): 11, 5.5, 2, 1 with automatic fallback

802.11g Radio Specifications

- Operating frequency: 2.4–2.5 GHz
- Available channels: WLAN switch -managed, dependent upon configured regulatory domain
- Modulation: Orthogonal frequency division multiplexing (OFDM)
- Transmit power
 - 20 dBm / 100 mW (dependent upon configured regulatory domain)
 - Configurable in increments of 0.5 dBm
- Association rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

802.11n Radio Specifications

- Operating frequency: 2.4–2.5 GHz and 5.150 GHz – 5.950 GHz*
- Available channels: WLAN switch-managed, dependent upon configured regulatory domain
- Modulation: 802.11n draft 2.0
- Transmit power
 - 20 dBm / 100 mW (dependent upon configured regulatory domain)
 - Configurable in increments of 0.5 dBm
- Association rates (Mbps): MSC0 - MSC15 (6.5Mbps - 300Mbps)
- Radio: 2x3, 3x3 multiple-in, multiple-out (MIMO)
- High-throughput (HT) support: HT 20/40
- Packet aggregation: A-MPDU, A-MSDU

TECHNICAL SPECIFICATIONS

Antenna

- OAW-AP124: Tri (3x3), RP-SMA interfaces for external antenna support (supports up to 3x3 MIMO with spatial diversity)
- OAW-AP125: Integral, tri (3x3), omni-directional multi-band dipole antenna elements (supports up to 3x3 MIMO with spatial diversity)
- OAW-AP125 antenna max gain
 - 2.4 GHz-2.5 GHz / 3.2 dBi
 - 5.150 GHz- 5.875 GHz / 5.2 dBi

Antenna

- Network
 - 2 x 10/100/1000BaseT Ethernet (RJ45), auto-sensing link speed and MDI/MDX
 - 48 V DC 802.3af or 802.3at or PoE + interoperable power-over-Ethernet (PoE) with intelli-source PSE sourcing intelligence (both ports)
- Antenna (model OAW-AP124 only):
 - 3 x RP-SMA antenna interfaces (supports up to 3x3 MIMO with spatial diversity)
- Other
 - 1 x RJ-45 console interface

Interfaces

- Network
 - 2 x 10/100/1000BaseT Ethernet (RJ45), auto-sensing link speed and MDI/MDX
 - 48 V DC 802.3af or 802.3at or PoE + interoperable power-over-Ethernet (PoE) with intelli-source PSE sourcing intelligence (both ports)
- Antenna (model OAW-AP124 only):
 - 3 x RP-SMA antenna interfaces (supports up to 3x3 MIMO with spatial diversity)
- Other
 - 1 x RJ-45 console interface

Power

- 48 V DC 802.3af or 802.3at or PoE + interoperable power-over-Ethernet (PoE) with intelli-source PSE sourcing intelligence (both ports)
- 5 V DC for external AC supplied power (adapter sold separately)

Mounting

- Standard
 - Desk-top (stand)
 - Wall
 - Tool-less ceiling tile rail (15/16")
- Optional mounting kit
 - Solid wall stand-off
 - Ceiling tile rail (15/16" and 9/16" recessed or non-recessed)
- Security
 - Kensington security lock point

Mechanical

- Dimensions / Weight
 - 4.9" x 5.13" x 2.0" (124 mm x 130 mm x 51 mm)
 - 15oz (0.42 Kg)

Environmental

- Operating
 - Temp: 0° to 50° C (32° to 122° F)
 - Humidity: 5 to 95% non-condensing
- Storage
 - Temp: 0° to 70° C (32° to 158° F)

Regulatory

- FCC Part 15
- Industry of Canada
- VCCI
- MIC
- Anatel
- NOM/COFETEL
- SRRC
- GS Mark
- CE Mark
- R&TTE Directive - 1995/5/EC
- Low Voltage Directive - 72/23/EEC
- EN 300 328
- EN 301 893
- EN 301 489
- UL/IEC/EN 60950-1:2001
- CB, cULus
- AS/NZS 4268, 4771

Certifications

- Planned for Wi-Fi certification for 802.11a/b/g/n

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
OAW-AP124	OmniAccess AP124 wireless access point. OAW-AP124 IEEE 802.11n (draft 2.0) wireless access point with support for selectable 802.11'B/G/N' and 802.11'A/N' operation, 3x3 MIMO dual-band RP-SMA detachable antenna interfaces, 2 x 10/100/1000Base-T (RJ-45) Ethernet interface (supports high power "power-over-Ethernet"), 1 x console Port, 1 x 5V DC power interface. Includes installation guide and removable desktop stand. AC power adapter kit and Antenna sold separately.
OAW-AP125	OmniAccess AP125 wireless access point. OAW-AP125 IEEE 802.11n (draft 2.0) wireless access point with support for selectable 802.11'B/G/N' and 802.11'A/N' operation, 3x3 MIMO dual-band antenna, 2 x 10/100/1000Base-T (RJ-45) Ethernet interface (supports high power "power-over-Ethernet"), 1 x console port, 1 x 5V DC power interface. Includes installation guide and removable desktop stand. AC power adapter kit sold separately.
OAW-AP120-MNT	OmniAccess AP120 series wireless access point wall / ceiling mounting kit. Includes: 1 x wall mounting cradle complete with security plate and anti-tamper screws, 1 x 15/16" to 9/16" recessed ceiling tile rail adapter and 1 x 15/16" to 15/16" recessed ceiling tile rail adapter – suitable for use with OAW-AP124 or OAW-AP125.
OAW-AP-AC-NA2	OAW-AP60/61/65/70/120 series AC Power Adapter Kit - North America Version
OAW-AP-AC-JPN2	OAW-AP60/61/65/70/120 series AC Power Adapter Kit - Japan
OAW-AP-AC-UK2	OAW-AP60/61/65/70/120 series AC Power Adapter Kit - United Kingdom
OAW-AP-AC-IT2	OAW-AP60/61/65/70/120 series AC Power Adapter Kit - Italy
OAW-AP-AC-EC2	OAW-AP60/61/65/70/120 Series AC Power Adapter Kit - Schuko
OAW-AP-AC-AUS2	OAW-AP60/61/65/70/120 Series AC Power Adapter Kit - Australia
OAW-AP-AC-LA2	OAW-AP 60/61/65/70/120 Series AC Power Adapter Kit - North America 2 Prong Version
OAW-AP-AC-CHN2	OAW-AP60/61/65/70/120 Series AC Power Adapter Kit - China
OAW-AP-AC-IN2	OAW-AP60/61/65/70/120 Series AC Power Adapter Kit - India
OAW-AP-AC-KOR2	OAW-AP60/61/65/70/120 Series AC Power Adapter Kit - Korea
OAW-AP-MS1-HP	1 Port midspan power injector. High power PoE over 10/100/1000

To learn more, contact your dedicated Alcatel-Lucent representative, authorized reseller, or sales agent. You can also visit our Web site at www.alcatel-lucent.com.

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