Alcatel-Lucent OmniAccess AP92 and OmniAccess AP93

SINGLE-RADIO 802.11N ACCESS POINTS

The Alcatel-Lucent OmniAccess AP92 and OmniAccess AP93 are high-speed, affordable and ultra-reliable 802.11n indoor access points (APs). Designed for remote branch and small campus applications, these access points deliver wireless data rates of up to 300 Mbps, along with secure, high-speed network services to support demanding applications such as Voice and Video. Both are built to provide years of trouble-free operation and are backed by a limited lifetime warranty.

Featuring a single 2x2 MIMO radio, the compact OmniAccess AP92 deploys external antennas, while OmniAccess AP93 features internal antennas. Both offer Adaptive Radio Management (ARM) capability, which manages WLAN channel, power and client behavior to ensure optimum performance, reliability and lower operating costs, as well as Spectrum Analysis capability which scans 2.4-GHz and 5-GHz radio bands for potential sources of RF interference. These multifunction Access Points can be configured through a WLAN switch to provide WLAN access, air monitoring, remote networking, secure enterprise mesh, and wireless intrusion detection/prevention. Both feature a 10/100/1000BASE-T Ethernet interface and can operate from standard 802.3af power-over-Ethernet (PoE) sources or a 12-volt DC power supply.

OMNIACCESS AP92

OMNIACCESS AP93

FEATURES	BENEFITS
IEEE 802.11n 2x2 MIMO (2 spatial streams) access point	High speed wireless up to 300 Mbps of throughput. Improved coverage compared to 802.11a/b/g technology. Backward compatibility with 802.11a/b/g Wi-Fi clients
802.3af PoE Power Sourcing	Operates with existing IEEE 802.3af compliant PoE devices. Does not require an overhaul of PoE infrastructure
Fully features enterprise-grade access point	Offers enterprise-wide, high speed wireless, high-performance branch and small office deployments. Supports key functions such as dynamic RF management (802.11n spectral width), air monitoring and spectrum analysis over 2.5 and 5GHz spectrum, wireless intrusion prevention, Call Admission Control (CAC), QoS, and battery life extension for converged communication

Technical specifications

Application

- High-performance 802.11n enterprise campus or branch office applications, indoor use, dual-band operation (operation band selected by SW).

Operating mode

- Multi-service 802.11a/n or b/g/n WLAN
- 802.11a/b/g/n air monitor
- Hybrid combination of WLAN/AM
- Remote AP
- Secure enterprise mesh
- Configurable to support 802.11n HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n

Radio

- Software configurable radio supporting 2.4 GHz or 5 GHz
- 802.11n capable, implementing 2x2 MIMO with 2 spatial streams, providing up to 300Mbps data rate

RF management

- Automatic transmit power and channel management control with auto coverage hole correction via Adaptive Radio Management (ARM)
- Spectrum Analysis capability scans the 2.4-GHz and 5-GHz radio bands for potential sources of RF interference

Advanced Features

- Remote AP (RAP) capable with addition of optional RAP license
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys

OmniAccess AP92 Antenna Connectors

- Dual, RP-SMA interfaces for external antenna support

OmniAccess AP93 Antenna

- Integrated, omni-directional antenna elements (supporting up to 2x2 MIMO with spatial diversity)
- Maximum antenna gain:
  - ¬ 2.4 GHz / 2.1 dBi
  - ¬ 5 GHz / 5.8 dBi

Wireless Radio Specifications

- AP type: 2x2 Multiple-In, Multiple-Out (MIMO)
- Supported Frequency Bands (country-specific restrictions apply):
  - ¬ 2.400 - 2.4835 GHz
  - ¬ 5.150 - 5.250 GHz
  - ¬ 5.250 - 5.350 GHz
  - ¬ 5.470 - 5.725 GHz
  - ¬ 5.725 - 5.850 GHz
- Available Channels: WLAN switch-managed, dependent upon configured regulatory domain
- Supported Radio Technologies:
  - ¬ 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
  - ¬ 802.11a/g/n: Orthogonal Frequency Division Multiplexing (OFDM)
  - ¬ 802.11n: 2x2 MIMO with 2 spatial streams
- Supported Modulation Types:
  - ¬ 802.11b: BPSK, QPSK, CCK
  - ¬ 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Transmit Power: Configurable in increments of 0.5 dBm
- Maximum transmit power:
  - ¬ 2.4GHz: 23 dBm (limited by local regulatory requirements)
  - ¬ 5 GHz: 23 dBm (limited by local regulatory requirements)
- Maximum Ratio Combining (MRC) for improved receiver performance
- Association Rates (Mbps):
  - ¬ 802.11b: 1, 2, 5.5, 11
  - ¬ 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - ¬ 802.11n: MCS0 - MCS15 (6.5Mbps - 300Mbps)
- 802.11n High-Throughput (HT) Support: HT 20/40
- 802.11n Packet Aggregation: A-MPDU, A-MSDU

Interfaces

- Network: 1 x 100/1000Base-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX
- Power: 1 x DC power connector
- Other: 1 x RJ-45 console interface

Power

- 48 V DC 802.3af Power over Ethernet
- 12 V DC for external AC supplied power (adapter sold separately)
- Maximum power consumption: 12.5 Watts

Mounting

- Standard
  - ¬ Wall
  - ¬ Tool-less ceiling tile rail (15/16")
- Optional mounting kit
  - ¬ Wall mount adapter
  - ¬ Ceiling tile rail (15/16" and 9/16" recessed or non-recessed)

Mechanical

- Dimensions / Weight (unit):
  - ¬ 4.7" x 5.1" x 1.4" (120 mm x 130 mm x 35 mm)
  - ¬ 13.2 oz (375 g)

Environmental

- Operating:
  - ¬ Temp: 0° to 50° C (32° to 122° F)
  - ¬ Humidity: 5 to 95% non-condensing
- Storage and Transportation Temperature Range:
  - ¬ Temp: -10° to +70° C (10° to +158° F)

Regulatory

- FCC/Industry of Canada
- CE Marked
- R&TTE Directive 1995/5/EC
- Low Voltage Directive 72/23/EEC
- EN 300 328
- EN 301 489
- EN 301 893
- UL/IEC/EN 60950
- CB Scheme Safety, cTUVus
- Japan MIC/VCCI
- Korea KCC
- Brazil ANATEL
- Mexico NOM/COFETEL
- China SRRC/CCC
- UL2043 Compliant
- AS/NZS 4260, 4771, 3548

Ordering Information

PART NUMBER	DESCRIPTION
OAW-AP92	OmniAccess AP92 Wireless Access Point, 802.11abgn, dual-band, single radio, with external antenna connectors (RP-SMA)
OAW-AP93	OmniAccess AP93 Wireless Access Point, 802.11abgn, dual-band, single radio, integrated antennas
OAW-AP-AC-UN	OmniAccess AP92, AP93, AP105 Universal AC Power Adapter Kit - North America, Japan, United Kingdom, Italy, EC (Shuko), Australia, China, India, Korea.
OAW-AP90-MNT	OmniAccess AP90 Series Access Point Wall / Ceiling Mounting Kit

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