

## Alcatel-Lucent OmniAccess AP68, OmniAccess AP68P

SINGLE RADIO SINGLE BAND (2.4 GHZ) 802.11N ACCESS POINT

The multi-function Alcatel-Lucent OmniAccess AP68 and OmniAccess AP68P\* are low cost 802.11n access points designed for small, very low density deployment areas in offices, hospitals, schools and retail stores. These compact non-MIMO access points deliver wire-like performance at data rates up to 150 Mb/s.



The OmniAccess AP68 features one 2.4-GHz radio with nominal 100 mW transmit power and two internal antennas while the OmniAccess AP68P features one 2.4-GHz radio with higher 500 mW transmit power and an external antenna connector.

Working with the Alcatel-Lucent OmniAccess centralized Mobility Controllers, the OmniAccess AP68 and OmniAccess AP68P deliver secure network services that move users to a 'wireless where possible, wired where necessary' network access model. The network can then be right-sized by eliminating unnecessary ports and thereby reducing operating costs.

The 802.11n enables the use of wireless as a primary connection with speed and reliability comparable to a wired LAN. It also increases performance by utilizing techniques such as channel bonding and block acknowledgement. Advanced antenna technology also increases range and reliability.

The key to ensuring wire-like performance and reliability is the Alcatel-Lucent unique Adaptive Radio Management (ARM), which maximizes client performance and ensures that access points stay clear of interference.

The multi-function OmniAccess AP68 and OmniAccess AP68P can be configured through the Mobility Controller to provide WLAN access with part-time air monitoring, dedicated air monitoring for wireless IPS, Remote AP (RAP) functionality or secure enterprise mesh. The OmniAccess AP68 and OmniAccess AP68P\* each feature a 10/100Base-T Ethernet interface and can operate from standard 802.3af Power over Ethernet (PoE) sources or from a 12 V DC power supply.

\*Available only in China

## Features

- 802.11n (1x1 with one spatial stream) single radio, single band (2.4 GHz) access point
- 802.3af PoE power sourcing
- Fully featured enterprise-grade access point

## Benefits

- High-speed wireless up to 150 Mb/s of throughput. Improved coverage compared to 802.11a/b/g technology. Backward compatibility with 802.11a/b/g Wi-Fi clients

## Technical specifications

### Operating mode

- 802.11b/g/n AP, air monitor (AM) and RAP
- AM and RAP
- RAP
- Secure enterprise mesh

### Radios

- Software-configurable single radio capable of supporting 2.4 GHz
- 802.11n capable, providing up to 150 Mb/s data rate

### RF Management

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

### Advanced features

- Integrated RAP, secure enterprise mesh point or portal, wireless intrusion detection and prevention
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys

### Power

- 48 V DC 802.3af Power over Ethernet
- 12 V DC for external AC supplied power (adapter sold separately)
- Maximum power consumption: 8 W

- Operates with existing IEEE 802.3af compliant PoE devices. Does not require an overhaul of PoE infrastructure
- Offers enterprise-wide, high-speed wireless for small, very low density deployment areas in offices, hospitals, schools and retail stores. Supports key functions such as dynamic RF management air monitoring, remote AP, secured wireless mesh, wireless intrusion prevention, Call Admission Control (CAC), quality of service (QoS), and battery life extension for converged communication

## Application

- Entry-level indoor 802.11n single radio, single band (2.4 GHz) AP for small, very low density deployment areas in offices, hospitals, schools and retail stores

### Wireless radio specifications

- AP type: Single radio, single band 802.11n indoor
- Supported frequency bands (country-specific restrictions apply)
  - 2.400 to 2.4835 GHz
- Available channels: Controller-managed, dependent upon configured regulatory domain
- Supported radio technologies
  - 802.11b: Direct sequence spread spectrum (DSSS)
  - 802.11g/n: Orthogonal frequency division multiplexing (OFDM)
  - 802.11n: 1x1 with one spatial stream
- Supported modulation types
  - 802.11b: BPSK, QPSK, CCK
  - 802.11g/n: BPSK, QPSK, 16 QAM, 64 QAM
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum transmit power
  - OmniAccess AP68: 20 dBm (limited by local regulatory requirements)
  - OmniAccess AP68P: 27 dBm (limited by local regulatory requirements; available only in China)
- Antenna diversity (OmniAccess AP68 only) for improved receiver performance
- Association rates (Mb/s)
  - 802.11b: 1, 2, 5.5, 11
  - 802.11g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: MCS0 – MCS7 (6.5 Mb/s to 150 Mb/s)

- 802.11n high-throughput (HT) support: HT 20/40
- 802.11n packet

### Antenna

- OmniAccess AP68: Integrated, omni-directional antenna elements (supporting receive spatial diversity). Antenna gain: 3 dBi (maximum)
- OmniAccess AP68P: RP-SMA interface for external antenna support (available only in China)

### Interfaces

- Network
  - 1 x 10/100Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
- Power
  - 1 x DC power connector
- Other
  - 1 x RJ-45 serial console interface

### Mounting

- Standard
  - Tool-less ceiling tile rail (15/16 in.)
  - 4 rubber 'feet' to support desk mount

### Mechanical

- Dimensions/weight (unit)
  - 140 mm x 105 mm x 38 mm (5.5 in. x 4.1 in. x 1.5 in.)
  - 145 g (5.1 oz)
- Dimensions/weight (shipping)
  - 165 mm x 130 mm x 60 mm (6.5 in. x 5.1 in. x 2.4 in.)
  - 330 g (11.6 oz)

### Environmental

- Operating
  - Temperature: 0°C to 40°C (32°F to 104°F)
  - Humidity: 5% to 95% non-condensing
- Storage and transportation temperature range
  - Temperature: -40°C to +70°C (-40°F to +158°F)

### Regulatory

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

For more country-specific regulatory information, and approvals, please see your Alcatel-Lucent representative.

### Certifications

- Wi-Fi® certified 802.11b/g/n

### Warranty

- 1 year parts/labor

## Ordering Information

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PART NUMBER	DESCRIPTION
OmniAccess AP68	OmniAccess AP68 wireless access point. Entry-level indoor 802.11b/g/n single radio, single band (2.4 GHz) AP with performance at data rates up to 150 Mb/s for low density applications, integral antenna, 1 x 10/100/1000Base-T (RJ-45) Ethernet interface (supports 802.3af PoE), 1 x 12 V DC power interface. AC power adapter kit (OAW-AP-AC-UN) sold separately.
OmniAccess AP68P	OmniAccess AP68P high power 802.11b/g/n with RP SMA type external antenna connectivity. Entry-level indoor 802.11b/g/n single radio, single band (2.4 GHz) AP with performance at data rates up to 150 Mb/s for low density applications, 1 x 10/100/1000Base-T (RJ-45) Ethernet interface (supports 802.3af PoE), 1 x 12 V DC power interface. AC power adapter kit (OAW-AP-AC-UN) sold separately. Available only in China.
AP-AC-UN	Alcatel-Lucent 12 V DC Universal AC Power Adapter Kit – North America, Japan, United Kingdom, Italy, EC (Europlug), Australia, China, India, Korea

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