Alcatel-Lucent OmniAccess AP65

DUAL-RADIO THIN ACCESS POINT

The Alcatel-Lucent OmniAccess AP65 is Alcatel-Lucent's smallest, dual-radio thin architecture access point that provides concurrent operation of 802.11a and 802.11b/g services. Designed for use exclusively with OmniAccess WLAN switches, with its rear mounted Ethernet interface and integrated ceiling tile rail mounting point, the OmniAccess AP65 is self contained and has a, low-profile design that is ideally suited for discrete deployment applications. The OmniAccess AP65 is a multi-purpose device that functions both as an access point and as an RF monitor-either independently or concurrently—across the 2.4 GHz and 5 GHz spectrums. The OmniAccess AP65 supports an integral high-gain antenna for maximum multi-band coverage.

TECHNICAL SPECIFICATIONS

Network Configuration

- Wireless access point (IEEE 802.11a/b/g)
- Air monitor (IEEE 802.11a/b/g)

Integral Antennas

- Dual, integral, tri-band, high-gain, omni-directional antennas with 180 degrees rotational movement. Non-detachable.
- Antenna specifications
  - ¬ Gain:
    - 2.4-2.5 GHz / 3.30 dBi
    - 5.150 GHz / 2.50 dBi
    - 5.350 GHz / 3.30 dBi
  - ¬ VSWR 1.5:1
  - ¬ Support for radio signal diversity

Radio Specs 5GHZ - IEEE 802.11a

- Frequency bands supported
  - ¬ 5.150 ~ 5.250GHz (low band), country specific
  - ¬ 5.250 ~ 5.350GHz (mid band), country spcific
  - ¬ 5.470 ~ 5.725GHz (Europe), country specific
  - ¬ 5.725 ~ 5.825GHz GHz (high band), country specific
- Radio technology: orthogonal frequency division multiplexing (OFDM)
- Modulation type – BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator/professional installer
- MAC – CSMA/CA with ACK
- Operating channels:
  - ¬ US, Canada - 12
  - ¬ ETSI - up to 19
  - ¬ Japan - 4
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel
- Multi-mode radio band 802.11a or 802.11b/g selectable via software

Radio Specs 2.4GHZ - IEEE 802.11b

- Frequency Bands Supported
  - ¬ 2.400 ~ 2.4835GHz (Global), channels country specific
- Radio technology – direct sequence spread spectrum (DSSS)
- Modulation type – CCK, BPSK, QPSK
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - ¬ US, Canada - 11
  - ¬ ETSI - 13
  - ¬ Japan 13
- Data rates: 1, 2, 5.5, 11 Mbps per channel
- Multi-mode radio band 802.11a or 802.11b/g selectable via software

Radio Specs 2.4GHZ - IEEE 802.11g

- Frequency bands supported
  - ¬ 2.400 ~ 2.4835GHz (global), channels country specific
- Radio technology: orthogonal frequency division multiplexing (OFDM)

- Modulation type – BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - ¬ US, Canada - 11
  - ¬ ETSI - 13
  - ¬ Japan 13
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel
- Multi-mode radio band 802.11a or 802.11b/g selectable via software

Manageability

- Management of all 802.11 parameters as AP
- Network-wide AP management via:
  - ¬ CLI
  - ¬ Web GUI
  - ¬ SNMP
- Access point profiles
- Management by:
  - ¬ Geographical location
  - ¬ BSSID
  - ¬ Radio type
- Encryption support (AP and switch)
  - ¬ 40-bit / 64-bit / 128-bit / 152-bit WEP, TKIP, AES, WPA, WPA2

Interfaces (Electrical)

- 1 x 10/100 Base-TX (RJ-45) auto-sensing Ethernet interface:
  - ¬ Auto-sensing MDI/MDX
  - ¬ PoE 48VDC / 220mA power-over-Ethernet (802.3af complant)
  - ¬ Supports serial over Ethernet
  - ¬ Rear mounted
- 1 x 5V DC external power interface

Interfaces (Mechanical)

- 1 x integrated ceiling tile rail snap-in mount (for 15/16" diamter rails). Located on rear of device
- 1 x Kensington locking interface

Visual Indicators (LEDS)

- (Ready) power on/off/booting
- (Ethernet 0) link status / activity
- 802.11a + b/g wireless access point
- 802.11a + b/g wireless air monitor

Power Requirements

- External AC power or POE
- 5V DC / 2A supplied externally via optional country specific AC adapter kits
- 48V DC / 220mA power-over-Ethernet (802.3af compliant)

Device Dimensions (H/W/D)

- (Antenna stowed) 3.94 x 3.94 x 1.47 in. (100 x 100 x 37mm)
- (Antenna extended 180 degrees)167 x 100 x 37mm (6.58 x 3.94 x 1.47 in.)

Shipping Dimensions (H/W/D)

- 3.94 x 3.94 x 1.47 in. (100 x 100 x 37mm)
- Weight – 0.5 lbs / 227 g

Environmental

- Temperature
  - ¬ Operating: 32 to 122 F (0 to 50 C)
  - ¬ Storage: 14 to 158 F (-10 to 70 C)
- Humidity 5% to 95% (non-condensing)
- Altitude - 8,000ft @ 82.4 F (28 C)

Certifications

- cULus listed (only if AC power supplied)
- PSE mark (only if AC power supplied)
- IEC 60950 CB certificate and report
- FCC DOC Part 15 Class B (digital portion)
- FCC Part 15 Subpart C 15.247
- FCC Part 15 Subpart E 15.407
- ICES-003 Class B
- RSS 210 (Canada)
- VCCI Class B (Japan)
- Telec 2.4, Channel 14 and 5GHz approved (Japan)
- CE marked with NB letter of opinion for RTTE
  - ¬ ETS 300 328 2.4 GHz
  - ¬ ETS 301 893 5.4 GHz
  - ¬ ETS 301 489 EMC
- MIC Korea
- SRRC (China)
- AS/NZS 3548 Class B
- AS/NZS4771 (C-tick)

Mounting Options

- Wall, ceiling, cube or desk stand
- Enclosure supports integrated rear mounted snap-in 15/16" ceiling tile rail guides

Standards

- Ethernet IEEE 802.3 / IEEE 802.3u
- Wireless IEEE 802.11a/b/g
- IEEE 802.3af

Safety

- UL Listed (UL60950)
- UL Listed (Canadian Electrical Code/CSA 22.2 No. 60950)
- EN60950 / IEC60950
- UL Listed (UL2043)• EN 60601-1-2: 2001 (MD compliance)

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
OAW-AP65	OmniAccess AP65 access point with integral antenna (2.4Ghz and 5Ghz bands with diversity). Supports 802.11a and 802.11b/g. Supports one 10/100 Base-T (RJ-45) Ethernet Interface (803.3af compliant and SoE capable). Includes an Installation Guide. When no power-over-Ethernet is available, an external Power Adapter Kit shall be ordered separately.
OAW-AP65-MNT	OmniAccess AP65 wall, secure wall and desktop mounting kit.
OAW-AP-AC	OmniAccess access point Power Adapter Kit. Should be ordered when access point cannot be powered with power-over-Ethernet. Contains: Auto- sensing 110V/240V AC power brick complete with AC power cable (North America).
OAW-AP-AC-JPN	OmniAccess access point Power Adapter Kit. Should be ordered when access point cannot be powered with power-over-Ethernet. Contains: Auto- sensing 110V/240V AC power brick complete with AC power cable (Japan).
OAW-AP-AC-UK	OmniAccess access point Power Adapter Kit. Should be ordered when access point cannot be powered with power-over-Ethernet. Contains: Auto- sensing 110V/240V AC power brick complete with AC power cable (UK).
OAW-AP-AC-IT	OmniAccess access point Power Adapter Kit. Should be ordered when access point cannot be powered with power-over-Ethernet. Contains: Auto- sensing 110V/240V AC power brick complete with AC power cable (Italy).
OAW-AP-AC-EC	OmniAccess access point Power Adapter Kit. Should be ordered when access point cannot be powered with power-over-Ethernet. Contains: Auto- sensing 110V/240V AC power brick complete with AC power cable (Central Europe, Shuko).

www.alcatel-lucent.com

Alcatel·Lucent