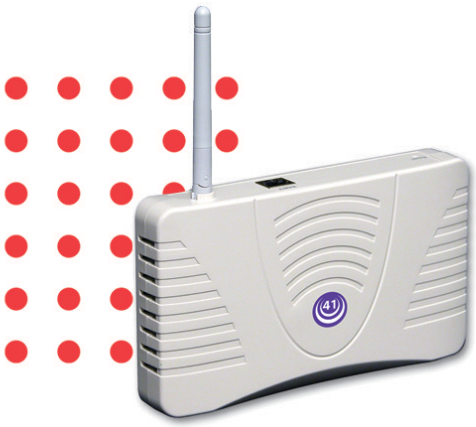
Alcatel-Lucent OmniAccess AP41

MULTI-BAND THIN ACCESS POINT

The Alcatel-Lucent OmniAccess AP41 is a single radio, multi-band (802.11 a/b/g) thin access point. The OmniAccess AP41 has an internal antenna and can be deployed via wall jacks in the user space. It is powered by standards compliant PoE (power-over-Ethernet). The OmniAccess AP41 is designed for cost-sensitive applications below the ceiling and is ideal for dense deployments in user space serving a mix of 802.11 a, b and g clients. The OmniAccess AP41 is also well suited for WiFi deployments in the home, retail, and branch office.



TECHNICAL SPECIFICATIONS

Network Configuration

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

Integral Antenna

- Single, integral, tri-band, omni-directional antenna with articulating movement.
- Non-detachable.
- Antenna specifications
  - ¬ Gain
    - 2.4-2.5 GHz / 2.11 dBi
    - 4.900 GHz ~ 5.850 GHz / 2.07 dBi
  - ¬ VSWR 1.5:1

Radio Specs 5GHZ - IEEE 802.11a

- Frequency bands supported
  - ¬ 5.150 ~ 5.250 GHz (low band), country specific
  - ¬ 5.250 ~ 5.350 GHz (mid band), country specific
  - ¬ 5.470 ~ 5.725 GHz (Europe), country specific
  - ¬ 5.725 ~ 5.825/5.850 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 - 13
  - ¬ ETSI - up to 19
  - ¬ Japan - 8
- 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 ~ 2.4835/2.497 GHz (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 ~ 2.4835 GHz (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 - up to 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 / 200mA power over Ethernet (802.3af compliant)
- 1 x reset button (restores to factory default configuration)

Interfaces (Mechanical)

- Wall-mount lugs

Visual Indicators (LEDS)

- (Ready) power on/off/booting
- (ENET) link status / activity
- (WLAN A) IEEE 802.11a status
- (WLAN G) IEEE 802.11b/g status

Power Requirements

- 48V DC / 200mA power-over-Ethernet (802.3af compliant)

Device Dimensions (H/W/D)

- (Antenna stowed) 107 x 184 x 32mm (4.21 x 7.24x 1.26 in.)
- Weight 0.99Lbs / 0.45Kgs

Environmental

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

Mounting Options

- Wall, ceiling or cube mountable

Standards

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

Radio Approvals

- 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 5 GHz 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)

Safety Approvals

- cULus listed
- IEC 60950 CB certifi cate and report
- UL Listed (UL60950)
- UL Listed (Canadian Electrical Code/CSA 22.2 No. 60950)
- EN60950 / IEC60950
- EN 60601-1-1 & EN 60601-1-2: (MD compliance)

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
OAW-AP41	OmniAccess AP41 access point with single integral tri-band antenna. Supports 802.11a or 802.11b/g (SW selectable). Supports one 10/100 Base-T (RJ-45) Ethernet interface (power-over-Ethernet capable) and Installation Guide.

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