Alcatel-Lucent OmniAccess AP70

DUAL-RADIO ACCESS POINT AND RF MONITOR

The Alcatel-Lucent OmniAccess AP70 (OAW-AP70) is a dual-radio access point that provides concurrent operation of 802.11a and 802.11b/g services. The OAWAP70 is a multi-purpose device that can function both as an access point and as an RF monitor—independently or concurrently—across the 2.4 GHz and 5 GHz spectrums. Ideally suited for workspace deployment, the OAW-AP70 can be securely wall or desk-mounted.

TECHNICAL SPECIFICATIONS

Integral Antenna

The OAW-AP70 an integral, diversity-supporting dual, tri-band omni-directional high-gain antenna with 180° degrees movement.
The antenna gains are:

- 2.4-2.5 GHz: 4.46 dBi
- 5.150 GHz: 7.21 dBi
- 5.350 GHz: 6.49 dBi
- 5.850 GHz: 5.23 dBi

External Antenna Interfaces

Quad (2 x 2.4GHz and 2 x 5GHz), diversity supporting reverse polarity SMA (RP-SMA) antenna interfaces suitable for a wide array of detachable antennas of various pattern types and gains.)

Radio Specifications- 802.11a

- Frequency bands
  - ¬ 5.150 ~ 5.250 GHz (lower band): 4 channels
  - ¬ 5.250 ~ 5.350 GHz (middle band): 4 channels
  - ¬ 5.500 ~ 5.700 GHz (ETSI band): 11 channels
  - ¬ 5.725 ~ 5.825 GHz (higher band): 4 channels
- 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 and Canada: 8 external antenna / 12 internal antenna
  - ¬ ETSI: up to19
  - ¬ Japan: 4
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel

Radio Specifications- 802.11b

- Frequency band
  - ¬ 2.4 ~ 2.483 GHz (US, Canada and ETSI)
  - ¬ 2.4 ~ 2.497 GHz (Japan)
- 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 and Canada: 11
  - ¬ ETSI: 13
  - ¬ Japan: 14
- Data rates: 1, 2, 5.5, 11 Mbps per channel

Radio Specifications- 802.11g

- Frequency bands
  - ¬ 2.412 ~ 2.462 GHz (USA, Canada)
  - ¬ 2.412 ~ 2.472 GHz (ETSI)
  - ¬ 2.412 ~ 2.484 GHz (Japan)
- Radio technology - OFDM
- Modulation type – CCK, BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - ¬ US and Canada: 11
  - ¬ ETSI: 13
  - ¬ Japan: 14
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel

Physical

- Height (antenna retracted): 6.57 in. (167 mm)
- Height (antenna extended): 11.54 in. (293 mm)
- Width: 7.48 in. (190 mm)
- Depth: 1.18 in. (30 mm)
- Weight: 18 oz. (510 g)

Electrical Interfaces

- 2 x 10/100BaseTX RJ-45 auto-sensing Ethernet interfaces: (Port 0)
  - ¬ Auto-sensing MDI/MDX
  - ¬ PoE 48V DC / 250mA power over Ethernet (802.3af com plant)
  - ¬ Serial over Ethernet (Port 1)
  - ¬ Auto-sensing MDX
  - ¬ PoE 48V DC / 250mA power over Ethernet (802.3af complant)
- Redundant Ethernet data link and power over Ethernet
- USB ver2.0 interface
- 1 x 5V DC power interface

Mechanical Interfaces

- Standard Kensington MicroSaver security cable interface (not supplied)
- Optional wall and ceiling mount kit interface

Visual Indicators (LEDs)

- (Ready) Power on/off
- (Ethernet) link status / activity
- (Radio mode) 802.11a and b/g AP /air monitor mode

Requirements

- External AC power or POE
- 5V DC / 2A supplied externally via optional country specific AC adapter kits
- 48V DC / 200mA power over Ethernet (802.3af compliant)

Power Requirements

- External AC power or POE
- 5V DC / 3A supplied externally via optional country specific AC adapter kits
- 48V DC / 250mA power over Ethernet (802.3af compliant)

Environmental

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

Standards

- Ethernet IEEE 802.3 / IEEE 802.3u
- Power over Ethernet IEEE 802.3af
- Wireless IEEE 802.11a/b/g
- USB 2.0

Safety

- UL Listed (UL60950)
- UL Listed (Canadian Electrical Code/CSA 22.2 No. 60950)
- EN60950 / IEC60950
- National Electrical Code Section 300-22(C)
- Canadian Electrical Code, Part 1, CSA C22.1 Sections 2-128, 12-010(3), and 12-100
- UL2043 plenum rating

Electromagnetic Compliance

- FCC Part 15 Class B
- FCC Part 15 Class C 15.207/15.247
- FCC Part 15 Class E 15.407
- ICES- 003 Class A
- RSS 210 (CAN)
- VCCI Class A
- EN 61000-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4
- EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
- 73/23/EEC and 89/336/EEC
- EN 55022, EN55024 (89/336/EEC)
- ETS 300 328 (89/336/EEC), ETS 301 489 (89/336/EEC)
- AS/NZS 3548 Class A
- RFS 29 (NZ)

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
OAW-AP70	OmniAccess AP70 access point with integral antenna and quad RP-SMA external antenna connectors (2.4 GHz and 5 Ghz bands with diversity). Supports 802.11a and 802.11b/g. Supports two 10/100BaseT (RJ-45) Ethernet interfaces (one with power and serial-over-Ethernet and one with power-over-Ethernet capability) and one USB2.0 interface. Includes an Installation Guide. If required, an external antenna shall be ordered separately. When no power over Ethernet is available, an external Power Adapter Kit shall be ordered separately.

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