The entry-level OmniAccess® 300 Series Wave 2 access points deliver high performance and superb user experience for medium density environments. Featuring 3x3:3SS MU-MIMO capability, advanced ClientMatch radio management, and integrated BLE Beacons, the 300 Series enables an all wireless digital work environment in a cost-effective manner.

With a maximum concurrent data rate of 1,300 Mbps in the 5GHz band and 400 Mbps in the 2.4GHz band (for an aggregate peak data rate of 1.7Gbps), the entry-level 300 Series brings an always-on wireless network experience with the performance required for enterprises. It is ideal for cost-sensitive medium density environments across verticals.

The high performance 802.11ac 300 Series supports multi-user MIMO (MU-MIMO) and 3 spatial streams (3SS). It provides simultaneous data transmission to multiple devices (up to two), maximizing data throughput and improving network efficiency.

The 300 Series includes the enhanced ClientMatch technology that extends the client steering technology with MU-MIMO client awareness. It automatically identifies MU-MIMO capable mobile devices and steers those devices to the closest MU-MIMO capable OmniAccess access point. By grouping MU-MIMO capable mobile devices together, the network starts taking advantage of the simultaneous transmission to these devices, increasing its overall capacity. These dynamic roaming policies that are based on device types, help customers achieve the best WL AN performance in a mixed device environment during the technology transition period.

**UNIQUE BENEFITS**

- **Dual Radio 802.11ac Access Point with Multi-User MIMO**
  - Supports up to 1,300 Mbps in the 5GHz band (with 3SS/VHT80 clients) and up to 400 Mbps in the 2.4GHz band (with 2SS/VHT40 clients).

- **Built-in Bluetooth Low-Energy (BLE) radio**
  - Enables location-based services with BLE-enabled mobile devices receiving signals from multiple BLE Beacons at the same time.
  - Enables management of your deployment of battery-powered Beacons.

- **Advanced Cellular Coexistence (ACC)**
  - Minimizes interference from 3G/4G cellular networks, distributed antenna systems and commercial small cell/femtocell equipment. Quality of service for unified communication apps.

- **Quality of service for Unified Communication apps**
  - Supports priority handling and policy enforcement for unified communication apps, including Microsoft Skype for Business with encrypted videoconferencing, voice, chat and desktop sharing.

- **RF Management**
  - Adaptive Radio Management (ARM) technology automatically assigns channel and power settings, provides airtime fairness, and ensures that APs stay clear of all sources of RF interference to deliver reliable, high-performance WLANs.
The OmniAccess 300 Series APs can be configured to provide part-time or dedicated air monitoring for spectrum analysis and wireless intrusion protection. VPN tunnels to extend remote locations to corporate resources, and wireless mesh connections where Ethernet drops are not available.

Intelligent app visibility and control
- AppRF technology leverages deep packet inspection to classify and block, prioritize or limit bandwidth for over 2,500 enterprise apps or groups of apps.

Security
- Integrated wireless intrusion protection offers threat protection and mitigation, and eliminates the need for separate RF sensors and security appliances.
- IP reputation and security services identify, classify, and block malicious files, URLs and IPs, providing comprehensive protection against advanced online threats.
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys.

Intelligent Power Monitoring (IPM):
- Enables the AP to continuously monitor and report its actual power consumption and optionally make autonomous decisions to disable certain capabilities.

For the 300 Series APs, the IPM power-save feature applies when the unit is powered by an 802.3af PoE source. By default, the USB interface will be the first feature to turn off if AP power consumption exceeds the available power budget. In rare cases it may be necessary to take additional power saving measures, but in most cases, the 300 Series APs will operate in unrestricted mode.

Controller-managed mode – When managed by OmniAccess Mobility Controllers, OmniAccess 300 Series APs offer centralized configuration, data encryption, policy enforcement and network services, as well as distributed and centralized traffic forwarding.

Instant mode - In Instant mode, a single AP automatically distributes the network configuration to other Instant APs in the WLAN. Simply power-up one Instant AP, configure it over the air, and plug in the other APs - the entire process takes about five minutes. If WLAN requirements change, a built-in migration path allows 300 Series Instant APs to become part of a WLAN that is managed by a Mobility Controller.

Remote AP (RAP) for branch deployments.
Air monitor (AM) for wireless IDS, rogue detection and containment.
Spectrum analyzer, dedicated or hybrid, for identifying sources of RF interference.
Secure enterprise mesh.

**CHOOSE YOUR OPERATING MODE**

OmniAccess 300 Series APs offer a choice of operating modes to meet your unique management and deployment requirements.

- **Controller-managed mode**
- **Instant mode**
- **Remote AP (RAP) for branch deployments.**
- **Air monitor (AM) for wireless IDS, rogue detection and containment.**
- **Spectrum analyzer, dedicated or hybrid, for identifying sources of RF interference.**
- **Secure enterprise mesh.**

**AP300 SERIES SPECIFICATIONS**

- **OAAP-AP304** (controller-managed) and **OAW-IAP304** (Instant):
  - 802.11ac – 5GHz 3x3 MIMO (1,300 Mbps max rate) and 2.4GHz 2x2 MIMO (400 Mbps max rate) radios, with a total of three dual-band RP-SMA connectors for external antennas
- **OAW-AP305** (controller-managed) and **OAW-IAP305** (Instant):
  - 802.11ac – 5GHz 3x3 MIMO (1,300 Mbps max rate) and 2.4GHz 2x2 MIMO (400 Mbps max rate) radios, with a total of three integrated omni-directional downtilt dual-band antennas

**WI-FI RADIO SPECIFICATIONS**

- **AP type**: Indoor, dual radio, 5GHz 802.11ac 3x3 MIMO and 2.4GHz 802.11n 2x2 MIMO
- **Software-configurable dual radio supports** 5GHz (Radio O) and 2.4GHz (Radio 1)
- **5GHz**: Two spatial stream Single User (SU) MIMO for up to 1,300 Mbps wireless data rate to individual 3x3 VHT80 client devices
- **2.4GHz**: Two spatial stream Multi User (MU) MIMO for up to 867 Mbps wireless data rate to up to two (1x1 VHT80) MU-MIMO capable client devices simultaneously
- **2.4GHz**: Two spatial stream Single User (SU) MIMO for up to 400 Mbps wireless data rate to individual 2x2 VHT40 client devices (300 Mbps for HT40 802.11n client devices)
- **Support for up to 255 associated client devices per radio, and up to 16 BSSIDs per radio**
  - Supported frequency bands (country-specific restrictions apply):
    - 2.400 to 2.4835GHz
    - 5.150 to 5.350GHz
    - 5.725 to 5.850GHz
  - Available channels: Dependent on configured regulatory domain
  - Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
  - Supported radio technologies:
    - 802.11b Direct-sequence spread-spectrum (DSSS)
    - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
  - Supported modulation types:
    - 802.11b: BPSK, QPSK, CCK
    - 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
• Transmit power: Configurable in increments of 0.5 dBm
• Maximum (conducted) transmit power (limited by local regulatory requirements):
  - 2.4GHz band: +18 dBm per chain, +21 dBm aggregate (2x2)
  - 5GHz band: +18 dBm per chain, +23 dBm aggregate (3x3)
• Note: conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain
• Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks
• Maximum ratio combining (MRC) for improved receiver performance
• Cyclic delay/shift diversity (CDD/CSD) for increased range and improved reception
• Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
• Transmit beam-forming (TxBF) for increased signal reliability and range
• Supported data rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n (2.4GHz): 6.5 to 300 (MSC0 to MCS15)
  - 802.11n (5GHz): 6.5 to 450 (MSC0 to MCS23)
  - 802.11ac: 6.5 to 1,300 (MSC0 to MCS9,
    * NSS = 1 to 3 for VHT20/40/80
  - 802.11n high-throughput (HT) support: HT 20/40
  - 802.11ac very high throughput (VHT) support: VHT 20/40/80
  - 802.11n/ac packet aggregation: A-MPDU, A-MSDU

**OTHER INTERFACES**
• One 10/100/1000BASE-T Ethernet network interface (RJ-45)
  - Auto-sensing link speed and MDI/MDX
  - 802.3az Energy Efficient Ethernet (EEE)
• USB 2.0 host interface (Type A connector)
• Bluetooth Low Energy (BLE) radio
  - Up to 3dBm transmit power (class 2) and -92dBm receive sensitivity
• Integrated antenna with roughly 30 degrees downtilt and peak gain of 2.3dBi (AP304/IAP304) or 3.4dBi (AP305/IAP305)
• Visual indicators (multi-color LEDs): for System and Radio status
• Reset button: factory reset (during device power up)
• Serial console interface (proprietary; optional adapter cable available)
• Kensington security slot

**POWER SOURCES AND CONSUMPTION**
• The AP supports direct DC power and Power over Ethernet (PoE)
• When both power sources are available, DC power takes priority over PoE
• Power sources are sold separately
• Direct DC source: 12Vdc nominal, +/- 5%
  - Interface accepts 2.1/5.5-mm center-positive circular plug with 9.5-mm length
• Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source
  - Unrestricted functionality with 802.3af PoE
  - When using IPM, the AP may enter power-save mode with reduced functionality when powered by an 802.3af PoE source (see details on Intelligent Power Monitoring elsewhere in this datasheet)
• Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source
  - Unrestricted functionality with 802.3af PoE
  - When using IPM, the AP may enter power-save mode with reduced functionality when powered by an 802.3af PoE source (see details on Intelligent Power Monitoring elsewhere in this datasheet)
• Maximum (worst-case) power consumption: 13W (PoE) or 11W (DC)
  - Excludes power consumed by external USB device (and internal overhead), this could add up to 6.5W (PoE) or 5.5W (DC) for a 5W/1A USB device
• Maximum (worst-case) power consumption in idle mode: 3.7W (PoE) or 2.6W (DC)

**MECHANICAL**
• OAW-AP304 and OAW-IAP304: APIN0304
• OAW-AP305 and OAW-IAP305: APIN0305

**WARRANTY**
• Limited lifetime warranty

**MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS**
• AOS-W 6.5.1.0
• InstantOS 4.3.1.0

**ENVIRONMENTAL**
• Operating:
  - Temperature: 0° C to +50° C (+32° F to +122° F)
  - Humidity: 5% to 95% non-condensing
• Storage and transportation:
  - Temperature: -40° C to +70° C (-40° F to +158° F)
• Regulatory:
  - FCC/Industry of Canada
  - CE Marked
  - EN 300 328
  - EN 301 489
  - EN 301 893
  - UL/IEC/EN 60950
  - EN 60601-1-1, EN60601-1-2

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

**RELIABILITY**
• MTBF: 1,116,000hrs (127yrs) at +25°C operating temperature

**REGULATORY MODEL NUMBERS**
• OAW-AP304 and OAW-IAP304: APIN0304
• OAW-AP305 and OAW-IAP305: APIN0305

**CERTIFICATIONS**
• CB Scheme Safety, cTUVus
• UL/CSA, UL2043 plenum rating
• Wi-Fi Alliance (WFA) certified
  - 802.11a/b/g/n/ac

**MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS**
• AOS-W 6.5.1.0
• InstantOS 4.3.1.0

**WI-FI ANTENNAS**
• AP304/IAP304: Three RP-SMA connectors for external dual band antennas.
• AP305/IAP305: Three integrated dual-band omnidirectional antennas for 3x3 MIMO with maximum antenna gain of 3.9dBi in 2.4GHz and 5.4dBi in 5GHz.
• Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.
• The maximum gain of the combined antenna patterns for all elements operating in the same band is 5.4dBi in 2.4GHz and 7.6dBi in 5GHz.
### RF PERFORMANCE TABLE

<table>
<thead>
<tr>
<th>Standard</th>
<th>802.11b 2.4GHz</th>
<th>802.11g 2.4GHz</th>
<th>802.11n HT20 2.4GHz</th>
<th>802.11n HT40 2.4GHz</th>
<th>802.11a 5GHz</th>
<th>802.11n HT20 5GHz</th>
<th>802.11n HT40 5GHz</th>
<th>802.11ac VHT20 5GHz (SU-MIMO)</th>
<th>802.11ac VHT40 5GHz (SU-MIMO)</th>
<th>802.11ac VHT80 5GHz (SU-MIMO)</th>
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Maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory settings.
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAW-AP304</td>
<td>OmniAccess AP304 802.11n/ac 2x2:2/3x3:3 MU-MIMO Dual Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>OAW-AP305</td>
<td>OmniAccess AP305 802.11n/ac 2x2:2/3x3:3 MU-MIMO Dual Radio Integrated Antenna AP</td>
</tr>
<tr>
<td>OAW-IAP304-RW</td>
<td>OmniAccess Instant IAP304 (RW) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>OAW-IAP304-US</td>
<td>OmniAccess Instant IAP304 (US) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>OAW-IAP304-IS</td>
<td>OmniAccess Instant IAP304 (IS) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>OAW-IAP304-JP</td>
<td>OmniAccess Instant IAP304 (JP) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Antenna Connectors AP</td>
</tr>
<tr>
<td>OAW-IAP305-RW</td>
<td>OmniAccess Instant IAP305 (RW) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Integrated Antenna AP</td>
</tr>
<tr>
<td>OAW-IAP305-US</td>
<td>OmniAccess Instant IAP305 (US) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Integrated Antenna AP</td>
</tr>
<tr>
<td>OAW-IAP305-IS</td>
<td>OmniAccess Instant IAP305 (IS) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Integrated Antenna AP</td>
</tr>
<tr>
<td>OAW-IAP305-JP</td>
<td>OmniAccess Instant IAP305 (JP) 802.11n/ac Dual 2x2:2/3x3:3 MU-MIMO Radio Integrated Antenna AP</td>
</tr>
<tr>
<td>AP-220-MNT-C1</td>
<td>Indoor Access Point suspended ceiling rail mount kit (for flat rails only, black). Spare for the clips provided with the AP.</td>
</tr>
<tr>
<td>AP-220-MNT-C2</td>
<td>Indoor Access Point suspended ceiling rail mount kit (for Interlude and Silhouette rail styles only, black). Alternate to standard clips provided with AP.</td>
</tr>
<tr>
<td>AP-MNT-CM1</td>
<td>Indoor Access Point suspended ceiling rail mount kit (industrial grade, metal). Fits most rail types</td>
</tr>
<tr>
<td>AP-220-MNT-W1</td>
<td>Indoor Access Point flat-surface mount kit (basic, black)</td>
</tr>
<tr>
<td>AP-220-MNT-W1W</td>
<td>Indoor Access Point flat-surface mount kit (basic, white). Mechanically identical to AP-220-MNT-W1</td>
</tr>
<tr>
<td>AP-220-MNT-W3</td>
<td>Indoor Access Point flat surface mount kit (box style, secure, low-profile, large). Color: white</td>
</tr>
<tr>
<td>AP-305-CVR-20</td>
<td>Kit of 20 snap-on covers for OAW-AP305. Plain white, non-glossy, with holes for LED indicators. Color: white</td>
</tr>
<tr>
<td>AP-AC-12V30B</td>
<td>OmniAccess 12V/30W AC-to-DC Desktop Style Power Adapter with Type B DC plug (2.1/5.5/9.5mm circular, 90-degree angled). Note: does not include country specific AC power cord (PC-AC-xx).</td>
</tr>
<tr>
<td>PD-3501G-AC</td>
<td>1 Port 802.3af PoE Midspan 10/100/1000 15.4W. No power cord included</td>
</tr>
<tr>
<td>PD-9001GR-AC</td>
<td>OAW WLAN 1 Port 802.3at PoE Midspan 10/100/1000 30W. US power cord included. Rest all power cord shall be ordered separately.</td>
</tr>
</tbody>
</table>