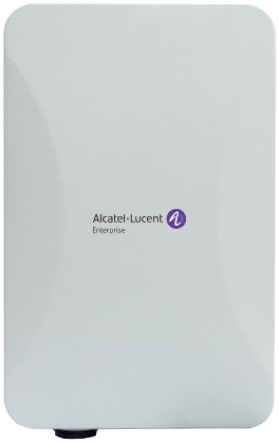
Alcatel·Lucent
Enterprise

Alcatel-Lucent OmniAccess Stellar AP1261

Outdoor 802.11ac wave2 wireless Access Point

Alcatel-Lucent OmniAccess® Stellar AP1261 is a high performance 802.11ac wave2 access point used in outdoor settings for enterprise deployments of all sizes.



The OmniAccess® Stellar AP1261 Outdoor Wi-Fi access point provides high throughput and seamless user experience.

The high performance and rugged AP1261 supports IP67 standard for harsh outdoor environments with exposure to high and low temperatures. With a maximum concurrent data rate of 1.2Gbps (867Mbps in 5GHz and 300Mbps in 2.4GHz), Gigabit Ethernet links, and integrated wide range antennas, it is ideal for outdoor Wi-Fi coverage.

Featuring enhanced WLAN technology with RF Radio Dynamic Adjustment, a distributed control Wi-Fi architecture, secure network admission control with Unified Access, built in application intelligence and analytics, making it ideal for enterprises demanding a simple, secure and scalable Wireless solution.

Cloud enabled with OmniVista Cirrus

The OmniAccess Stellar AP1261 can be managed by Alcatel-Lucent OmniVista® Cirrus cloud platform. OmniVista® Cirrus powers a secure, resilient and scalable cloud-based network management platform. It offers hassle free network deployment and easy service rollout with advanced analytics for smarter decision making. Offers IT friendly Unified Access with secure authentication and policy enforcement for users and devices.

OmniVista™ 2500 managed deployment

The OmniAccess AP1261 AP can be managed from Alcatel-Lucent OmniVista™. The access points are managed as one or more AP Groups (a logical grouping of one or more access points).

The OmniVista™ next generation management suite embeds a visionary controller-less architecture, providing user friendly workflows for Unified Access together with integrated Unified Policy Authentication Manager (UPAM) which helps define authentication strategy and policy enforcement for Employees, Guest Management and BYOD devices. The network administrator can obtain a comprehensive view of applications running in the network and apply adequate control to optimize the performance of the network for business critical applications.

OmniVista™ provides advanced options for RF Management, wIDS/wIPS for intrusion detection and prevention, and Heatmap for WLAN site planning.

Plug and Play: Secure Web managed (HTTPS) cluster deployment

The OmniAccess AP1261 default operates in a cluster architecture to provide simplified plug-and-play deployments. The access point (AP) cluster is an autonomous system that consists of a group of OmniAccess APs and a virtual controller, which is a selected access point, for cluster management. One AP cluster supports up to 255 APs.

The access point cluster architecture ensures simplified and quick deployment. Once the first AP is configured using the configuration wizard, the remaining APs in the network will come up automatically with updated configuration. This ensures that the whole network is up and functional within a few minutes.

The access point also supports secure zero-touch provisioning with the third party partner, a mechanism by which all access points in a cluster will obtain bootstrap data securely from an on-premise device.

Integrated guest management

The OmniAccess AP1261 supports role based management access to the AP cluster which includes Admin, Viewer and GuestOperator access. GuestOperator access simplifies guest account creation and management, and therefore can be used by any non-IT person, such as a front desk or receptionist. The OmniAccess AP1261 AP also supports a built-in customizable captive portal which enables customers to offer unique guest access.

Quality of service for unified communication apps

The OmniAccess AP1261 AP supports fine tuned, quality of service (QoS) parameters to differentiate and provide appropriate QoS for each application such as voice, video and desktop sharing. Application aware RF scanning avoids interruption of real-time applications.

RF management

Radio Dynamic Adjustment (RDA) technology automatically assigns channels and power settings, provides DFS/TPC, and ensures that access points stay clear of all radio frequency interference (RFI) sources to deliver reliable, high-performance wireless LANs. The OmniAccess AP1261 AP can be configured to provide part-time or dedicated air monitoring for spectrum analysis and wireless intrusion protection.

Product specifications

Features	Benefits
Radio specifications	• AP type: Outdoor, dual radio, 5 GHz 802.11ac 2x2:2 MU-MIMO and 2.4 GHz 802.11n 2x2:2 MIMO • 5 GHz: 2*2 MIMO with two spatial streams, up to 867Mbps wireless data rate • 2.4 GHz: Two spatial streams Single User (SU) MIMO for up to 300 Mbps wireless data rate to individual 2x2 HT40 client devices • Supported frequency bands (country-specific restrictions apply): ¬ 2.400 to 2.4835 GHz ¬ 5.150 to 5.250 GHz ¬ 5.250 to 5.350 GHz ¬ 5.470 to 5.725 GHz ¬ 5.725 to 5.850 GHz • Available channels: Dependent on configured regulatory domain • DFA (Dynamic Frequency Adjustment) optimizes available channels and provides proper transmission power • Short guard interval for 20-MHz, 40-MHz, and 80-MHz channels • Transmit beam forming (TxBF) for increased signal reliability and range 802.11n/ac packet aggregation: Aggregated Mac Protocol Data Unit (A-MPDU), Aggregated Mac Service Data Unit (A-MSDU) • Supported data rates (Mbps): ¬ 802.11b: 1, 2, 5.5, 11 ¬ 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 ¬ 802.11n: 6.5 to 300 (MCS0 to MCS15) ¬ 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2) • Supported modulation types: ¬ 802.11b: BPSK, QPSK, CCK ¬ 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM ¬ 802.11n high-throughput (HT) support: HT 20/40 ¬ 802.11ac very high throughput (VHT) support: VHT 20/40/80
Interfaces	• 1× 10/100/1000BASE-T autosensing (RJ-45) port, IEEE 802.3at PoE in • Reset button: Factory reset. Press for 5s, SYS LED will quickly flash for 3s, then AP will restart and restore factory configurations
Visual indicators (5 LEDs)	• For system and radio status ¬ PWR ON: power on. ¬ SYS ON: Bootloader-OS is loading or running. ¬ SYS Flashing: Bootloader-OS upgrading. ¬ 2.4G ON: 2.4GHz SSID created and running ¬ 5G ON: 5GHz SSID created and running ¬ WAN ON: WAN linkup
Security	• 802.11i, WPA2, WPA3, WPA, AES 128-256 bits • 802.1X • WEP, Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP) • Firewall: ACL, wIPS/wIDS • Portal page authentication
Antenna	• OAW-AP1261: Built-in 2×2:2 @ 2.4GHz, 2x2:2 @ 5GHz ¬ Integrated antennas for 2x2 MIMO with maximum antenna gain of 7.67dBi in 2.4 GHz and 7.77dBi in 5 GHz.
Receive sensitivity	• -95 in 2.4GHz 1Mbps, -91 in 5GHz 6Mbps.
Maximum transmit power (per chain) ± 2dBm	• 23dBm in 2.4GHz • 23dBm in 5GHz Note: Maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory settings.
Power	Maximum (worst case) power consumption: ¬ 20W (802.3at PoE)
Mounting	Pole/ Wall mounting (Mounting kit shipped default with AP), angle is un-adjustable.
Environmental	Operating temperature: -20°C to 55°C (-4°F to +131°F) • Humidity: 5% to 95% non-condensing • Storage and transportation Temperature: -40°C to +85°C (-40°F to +185°F) • Chassis Rating: IP67

Features	Benefits
Dimensions/Weight	• Single AP excluding packing box: 180mm (W) x 298mm (D) x 86.5mm (H) -7.08" (W) x 11.73" (D) x 3.40" (H) / 1065g / 2.34lb • Including AP, packing box: 380mm (W) x 230mm (D) x 107mm (H) -14.96" (W) x 9.06" (D) x 4.21"(H)/ 1565g / 3.45lb
Capacity	• Up to 8 SSID per radio (total 16 SSID) • Support for up to 384 associated client devices per AP
Software features	Up to 8 SSID per radio (total 16 SSID) • Support for up to 384 associated client devices • Up to 255 APs per Web managed (HTTP/HTTPS) cluster. • Auto channel selection • Auto transmit power control • Bandwidth control per SSID • L2 roaming • L3 roaming with CSP/ESP • Captive Portal • Internal User Database • Radius Client • Wireless QoS • Band steering • Client based smart load balance • White/black list • Zero-touch provisioning (ZTP) with support of third-party partner • NTP server client • ACL • Rogue AP location and containment • System log report • Wireless Attack Detection Note: some features are limited by local regulatory settings
IEEE standard	IEEE 802.11a/b/g/n/ac wave2 • IEEE 802.11e WMM • IEEE 802.11h, 802.11i, 802.11e QoS • 802.11k Radio Resource Management • 802.11v BSS Transition Management • 802.11r Fast roaming
Regulatory and certification	CB Scheme Safety, cTUVus • Wi-Fi Alliance (WFA) certified 802.11a/b/g/n/ac • CE Marked • RoHS, REACH, WEEE

Ordering information

Access Points	Description
OAW-AP1261-RW-B	Outdoor 802.11ac Wave2 access point, Dual-Radio, 802.11n 2x2:2 + 802.11ac 2x2:2, 1x GbE, integrated antennas. Includes outdoor mounting kit for pole/wall mounting.

Warranty

OmniAccess Stellar Access Points come with Hardware Limited Lifetime Warranty (HLLW).

Services and support

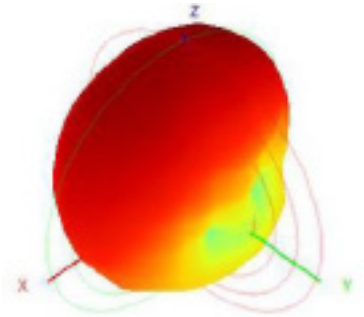
OmniAccess Stellar Access Points include one year of complementary SUPPORT Software for partners. For more information about our Professional services, Support services, and Managed services, please go to:

http://enterprise.alcatel-lucent.com/?services=EnterpriseServices&page=directory

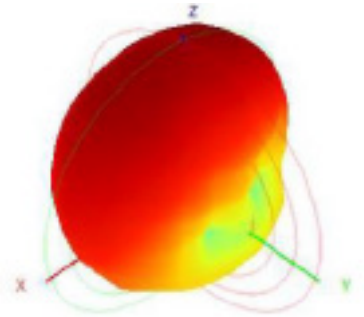
Figure 1. OAW-AP1261 antenna pattern plots

2G_H

Front view

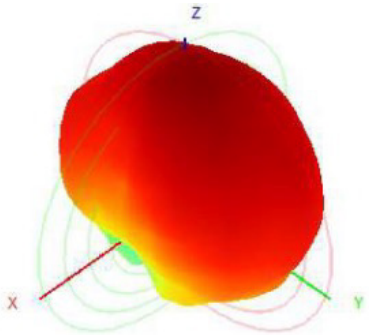


Back view

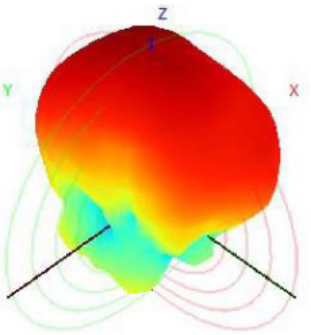


2G_V

Front view

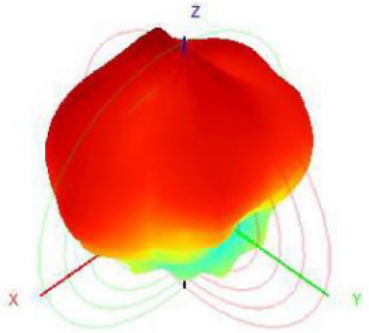


Back view

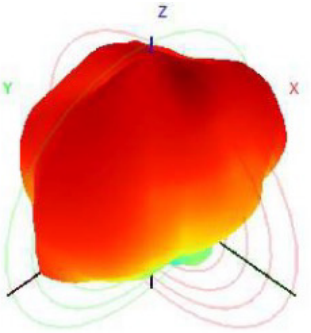


5G_H

Front view

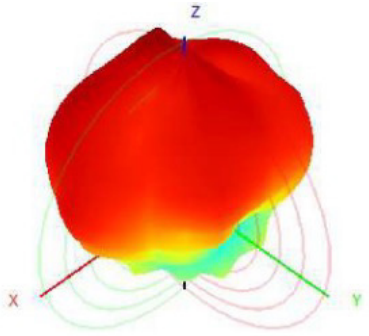


Back view

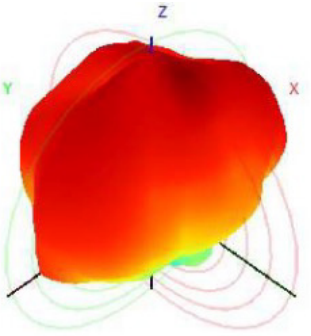


5G_V

Front view



Back view



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