Alcatel-Lucent OmniAccess Stellar AP1540 series

WLAN Access Points - Indoor Wi-Fi 7

The OmniAccess® Stellar AP1540 series is Alcatel-Lucent Enterprise's **ultra-high-performance Wi-Fi 7 access point**, designed to meet the requirements of high-density enterprise environments where reliability, security and scalability are essential. This **high-range series** features a powerful **five-radio architecture**, ultra-high aggregate throughput and flexible **dual 10-gigabit uplinks** with an optional optical link to ensure predictable low-latency connectivity, seamless scalability and resilient operations, laying a future-proof foundation for high-density users, immersive applications and intelligent buildings.

AP 1541

AP 1542

AP 1542
back

The OmniAccess Stellar AP1540 series comprises two products:

- AP1541, which has integrated omnidirectional antennas and is suitable for standard enterprise use, such as lecture halls, large classrooms, conference rooms, hotel common areas
- AP1542, which has 8 connectors for external antennas, perfectly suited to specific targeted coverage needs and specific spaces such as high ceilings in arenas, long corridors or warehouses

Both access points are powered with five built-in radios, three radios **6GHz 4x4:4, 5GHz 4x4:4 and 2.4GHz 4x4:4** serving **high-density Wi-Fi clients, one full band radio dedicated to scanning** for improved network security and Wi-Fi quality and an **integrated Bluetooth/Zigbee radio** enabling the growing needs of enterprise IoT connectivity for powering location and building automation services. The OmniAccess Stellar AP1540 series supports a **maximum aggregate data rate of 18.67 Gbps** (1376.5 Mbps in 2.4GHz, 5.76 Gbps in 5GHz, 11.5 Gbps in 6GHz). Each access point provides **one dual functionality port 10GE with Power over Ethernet (PoE) power** or SFP/SFP+ uplink and one **10GE port uplink/downlink with PoE power**.

The OmniAccess Stellar AP1540 series supports **802.11be features**, which include **Multi-Link Operation (MLO), Orthogonal Frequency Division Multiplexing (OFDMA), Downlink Multi-User Multiple Input, Multiple Output (DL MU-MIMO), Uplink Multi-User Multiple Input, Multiple Output (UL MU-MIMO), 4096 Quadrature Amplitude Modulation mode (4096-QAM)** and more, making tomorrow's diverse digital workspaces highly reliable and efficient.

The OmniAccess Stellar AP1540 series features enhanced WLAN technology with **RF Radio Dynamic Adjustment**, a distributed control Wi-Fi architecture, secure network admission control with Unified Access and built-in application intelligence and analytics, making it ideal for enterprises of all sizes that demand a simple, secure and scalable wireless solution.

802.11be high-efficiency features

Like all Alcatel-Lucent Wi-Fi 7 access points, the OmniAccess Stellar AP1540 series provides high-efficiency, high-performance 802.11be aggregate data rates. IEEE 802.11be allows enterprises to deliver high-performance wireless LAN services with increased throughput, enabling more clients in dense environments and bringing power efficiency to IoT devices, while it remains fully backward compatible with existing 802.11 a/b/g/n/ac/ax deployments. The 802.11be standard is a dramatic step forward in wireless LAN technology for all organizations. Some of the key 802.11be features enabled on the OmniAccess Stellar AP1540 series include:

- **Multi-Link Operation (MLO)**, a Wi-Fi technology that enables devices connected to a Wi-Fi access point (AP) to simultaneously send and/or receive data across different frequency bands and channels. MLO is one of the many core features added in Wi-Fi 7 that help enhance the user experience. The deployment flexibility rendered by MLO is key to addressing SLAs of next-gen user applications.
- **Orthogonal Frequency Division Multiple Access** (OFDMA), enabling more clients to simultaneously operate in the same channel and thereby improving efficiency, latency and throughput. OFDMA can concurrently address multiple clients in both directions downlink (DL) anF540d uplink (UL), including OFDMA Resource Units (RUs). OFDMA is very effective in environments where there are many devices with short frames demanding lower latency.
- **Multiple non-contiguous RU allocations per client**, allowing for increased RF spectrum utilization efficiency and reduced interference impact on bandwidth.
- **Multi-User Multiple Input, Multiple Output (MU-MIMO)**, allowing more data to be transferred at once and enabling an access point to handle a larger number of concurrent clients.
- **4096 quadrature amplitude modulation mode (4096-QAM)**, boosting peak data rates by as much as 25 percent.
- **Transmit beamforming**, improving signal power, resulting in significantly higher rates at a given range.

Deliver enterprise-grade security and scale with simplicity

The OmniAccess Stellar AP1540 series enables a **visionary distributed Wi-Fi architecture with centralized management and policy control**. This enforces security at every step starting at the network edge and allows unparalleled scale in network capacity. This architecture is vital for enabling the next generation of digital enterprise that demands business agility, seamless mobility and secure IoT-enabled infrastructure, empowering business transformation through continuous innovation.

The OmniAccess Stellar AP1540 series provides enhanced security with **WPA3, a security standard for enterprise and public networks, improving Wi-Fi security** by using advanced security algorithms and stronger ciphers in enterprises including the 192-bit security suite. Public spaces with open, non-protected access can now deliver encryption and privacy using OmniAccess Stellar, which supports a new security standard Wi-Fi Enhanced Open based on Opportunistic Wireless Encryption (OWE).

The OmniAccess Stellar AP1540 supports **802.1AE MACsec** in the two uplink ports. This way, the path from the AP to the network access switch can be protected with data confidentiality, data integrity and data origin authenticity. Also, this provides protection against man-in-the-middle attacks.

The OmniAccess Stellar AP1540 series has built-in DPI technology to provide real-time application monitoring and enforcement capabilities. The network administrator can obtain a comprehensive view of applications running in the network and apply adequate controls to optimize the performance of the network for business-critical applications.

Alcatel-Lucent OmniAccess Stellar access points, including the AP1540 series, support Dynamic Private-Group Pre-Shared Key (DPGPSK) deployments for massive private groups in Hospitality, MDUs and Residentials.

Alcatel-Lucent OmniVista® Network Management System

The APs can be deployed in three different modes (Express, on-premises or cloud), all through a single version of software, simplifying IT operations. For mid- to large-scale enterprises, the **Alcatel-Lucent OmniVista Network Management System** provides secure plug-and-play APs for large scale deployment, with user friendly workflows for wireless services and unified access for end-to-end security. It comes with an integrated NAC (Network Access Control), the unified policy authentication manager (UPAM), which helps define authentication strategy and policy enforcement for employees, guest management and BYOD devices. OmniVista provides advanced options for RF management, wireless Intrusion Detection System/wireless Intrusion Prevention System (wIDS/wIPS) and heatmaps for WLAN site planning. To further simplify IT, the APs can be managed as one or more groups (a logical grouping of one or more APs).

The **OmniVista Network Management System** provides two deployment models: **cloud-based or on-premises**. Learn more about the OmniVista Network Management System.

- The OmniAccess Stellar AP1540 series can be managed by **the 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. OmniVista Cirrus also provides IT-friendly unified access with secure authentication and policy enforcement for users and devices.
- The OmniAccess Stellar AP1540 series can be managed **on-premises from OmniVista, dedicated for on-premises deployment**, which addresses stringent requirements for local infrastructure management, data sovereignty and advanced security compliance.

For small to medium-sized enterprises, **Wi-Fi Express provides secure web-managed (HTTPS) cluster deployment**.

The OmniAccess Stellar AP1540 series, by default, can operate in a cluster architecture to provide simplified plug-and-play deployment. The AP cluster is an autonomous system that consists of a group of OmniAccess Stellar APs managed by one AP that is elected as the primary virtual manager. One AP cluster supports up to 255 APs.

The AP 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 an updated configuration. This ensures the whole network is up and functional within a few minutes.

W-Fi Express mode supports role-based management access to the AP cluster which includes Admin, Viewer and GuestOperator access. GuestOperator access simplifies guest account management and can be used by any non-IT person such as a front desk worker or receptionist. The OmniAccess Stellar AP1540 series also supports a built-in, customizable captive portal, which enables customers to offer secure and seamless guest access experience.

Quality of service for unified communication apps

The OmniAccess Stellar AP1540 series 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 Dynamic Frequency Selection/Transmit Power Control (DFS/TPC) and ensures that APs stay clear of all radio frequency interference (RFI)** sources to deliver reliable, high-performance WLAN. The OmniAccess Stellar AP1540 series has a dedicated scanning radio for spectrum analysis and wireless intrusion protection.

The OmniAccess Stellar AP1540 series complies with worldwide regulatory requirements, supporting both **Automatic Frequency Coordination (AFC) and Regulator Frequency Coordination (RFC)**. In some regulatory domains, the use of Indoor APs with Standard Power operation and external antennas could require frequency coordination.

In the OmniAccess Stellar AP1540 series, the 6GHz radio is software configurable to operate in 5GHz, allowing the use of the three radios where 6GHz band is still not allowed in 2.4GHz + 5GHz + 5GHz configuration.

Product specifications

Features	Description
Radio specification	• AP type: Indoor Wi-Fi 7 (802.11be) • Tri Radio, 6GHz 4x4:4, 5GHz 4x4:4, and 2.4GHz 4x4:4 ¬ 6GHz: 4x4:4 up to 11.52 Gbps wireless data rate to individual 4SS EHT320 802.11be client devices. Software configurable radio, capable of operating in 5GHz High ¬ 5GHz: 4x4:4 up to 5.76 Gbps wireless data rate to individual 4SS EHT160 802.11be client devices ¬ 2.4GHz: 4x4:4 up to 1.376 Gbps wireless data rate to individual 4SS EHT40 802.11be client devices • AP1541 normal operation: 2.4GHz 4x4:4, 5GHz 4x4:4 and 6GHz 4x4:4 • AP1542 depends on regulatory domain • Supported frequency bands (country-specific restrictions apply): ¬ 2.400 to 2.4835GHz ¬ 5.150 to 5.250GHz ¬ 5.250 to 5.350GHz ¬ 5.470 to 5.725GHz ¬ 5.725 to 5.850GHz ¬ 5.925 to 6.425GHz ¬ 6.425 to 6.525GHz ¬ 6.525 to 6.875GHz ¬ 6.875 to 7.125GHz • Available channels: Dependent on configured regulatory domain • Brazil: Maximum transmit power: 24dBm on 2.4GHz, 24dBm on 5GHz • Maximum transmit power (limited by local regulatory requirements): ¬ 29dBm on 2.4GHz ¬ 29dBm on 5GHz ¬ 28dBm on 6GHz • DFA (dynamic frequency adjustment) optimizes available channels and provides proper transmission power • Short guard interval for 20-MHz, 40-MHz, 80-MHz, 160-MHz and 320-MHz channels • Transmit beamforming (TxBF) for increased signal reliability and range • 02.11n/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(2.4GHz): 6.5 to 600 (MCS0 to MCS31, HT20 to HT40) ¬ 802.11n(5GHz): 6.5 to 600 (MCS0 to MCS31, HT20 to HT40) ¬ 802.11ac(2.4GHz): 6.5 to 800 (MCS0 to MCS9, NSS=1 to 4, VHT20 to VHT40) ¬ 802.11ac(5GHz): 6.5 to 3466 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160) ¬ 802.11ax(2.4GHz): 7.3 to 1147 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE40) ¬ 802.11ax(5GHz): 7.3 to 4804 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160) ¬ 802.11ax(6GHz): 7.3 to 4804 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160) ¬ 802.11be(2.4GHz): 7.3 to 1376 (MCS0 to MCS13, NSS = 1 to 4, EHT20 to EHT40) ¬ 802.11be(5GHz): 7.3 to 5765 (MCS0 to MCS13, NSS = 1 to 4, EHT20 to EHT160) ¬ 802.11be(6GHz): 7.3 to 11529 (MCS0 to MCS13, NSS = 1 to 4, EHT20 to EHT320) • Supported modulation types: ¬ 802.11b: BPSK, QPSK, CCK ¬ 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM ¬ 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM ¬ 802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM ¬ 802.11n high-throughput (HT) support: HT 20/40 ¬ 802.11ac very high throughput (VHT) support: VHT 20/40/80 ¬ 802.11ax high efficiency (HE) support: HE 20/40/80/160 ¬ 802.11be Extreme High Throughput (EHT) support: EHT20/40/80/160/320 • Advanced cellular coexistence (ACC) • Minimizes interference from 3G/4G cellular networks, distributed antenna systems, and commercial small cell/ femtocell equipment • 802.11mc/az fine timing measurement (FTM) • Bluetooth 5.4 / Zigbee: Up to 6dBm transmit power (class 1) and -93dBm receive sensitivity • Integrated omnidirectional antenna with peak gain of 4.5dBi
Interfaces	• Combo port: [1x multi-Gigabit 100M/1G/2.5G/5G/10G IEEE 802.3bz compliant autosensing (RJ-45) port, Eth0, Power over Ethernet 802.3bt or SFP/SFP+] - Eth0 (PoE) 802.3bt compliant • 1x10GE RJ45 port - Eth1 802.3bt compliant (uplink/downlink port) • 1x USB 2.0 Type C (5V, 1A) • 1x USB Type C console • Reset button: Factory reset • Kensington security lock

Features	Description
Visual indicators (Tri-color LED)	For system and radio status • Red flashing: System abnormal, link down • Red light: System startup • Red and blue rotate flashing: System running, OS upgrading • Blue light: System running, dual-band or tri-band working • Green flashing: System running, no SSID created • Green light: System running, single band working • Red, blue and green rotate flashing: System running, use for location of an AP
Security	• Integrated Trusted Platform Module (TPM 2.0) for secure storage of credentials and keys • 802.11i, WPA2, WPA3, Enterprise with CNSA option, Personal (SAE) • 802.1X • WEP, Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP) • Firewall: ACL, wIPS/wIDS and DPI application policy enforcement with OmniVista • Portal page authentication
Antenna	• AP1541: Integrated omni-directional antennas with maximum antenna gain of 5.9dBi in 2.4GHz, 5.3dBi in 5GHz and 4.2dBi in 6GHz. • AP1542: 8 x External antenna connectors RP-SMA female. 4 connectors for 2.4GHz and 5GHz and 4 connectors for 5GHz and 6GHz. MIMO 4x4.

Receive sensitivity

	2.4GHz	5GHz	6GHz
1 Mbps	-98		
11 Mbps	-90		
6 Mbps	-95	-94	
54 Mbps	-76	-76	
HT20(MCS0/8)	-94	-94	
HT20(MCS7/15)	-76	-75	
HT40(MCS0/8)	-92	-91	
HT40(MCS7/15)	-74	-73	
VHT20(MCS0)	-94	-94	
VHT20(MCS8)	-72	-71	
VHT40(MCS0)	-92	-91	
VHT40(MCS9)	-68	-67	
VHT80(MCS0)		-89	
VHT80(MCS9)		-64	
HE20(MCS0)	-95	-94	-95
HE20(MCS11)	-65	-65	-66
HE40(MCS0)	-92	-91	-92
HE40(MCS11)	-63	-62	-63
HE80(MCS0)		-88	-89
HE80(MCS11)		-60	-61
HE160(MCS0)		-87	-87
HE160(MCS11)		-57	-58
EHT20(MCS0)	-94	-94	-94
EHT20(MCS13)	-59	-58	-59
EHT40(MCS0)	-91	-91	-92
EHT40(MCS13)	-58	-57	-57
EHT80(MCS0)		-88	-89
EHT80(MCS13)		-55	-56
EHT160(MCS0)		-87	-87
EHT160(MCS13)		-54	-54
EHT320(MCS0)			-85
EHT320(MCS13)			-54

Features	Description			
Maximum transmit power (per chain)		2.4GHz	5GHz	6GHz
	1 Mbps	18 dBm		
	11 Mbps	18 dBm		
	6 Mbps	18 dBm	18 dBm	
	54 Mbps	18 dBm	18 dBm	
	HT20(MCS0/8)	18 dBm	18 dBm	
	HT20(MCS7/15)	17 dBm	17 dBm	
	HT40(MCS0/8)	18 dBm	18 dBm	
	HT40(MCS7/15)	17 dBm	17 dBm	
	VHT20(MCS0)	18 dBm	18 dBm	
	VHT20(MCS8)	17 dBm	17 dBm	
	VHT40(MCS0)	18 dBm	18 dBm	
	VHT40(MCS9)	16 dBm	16 dBm	
	VHT80(MCS0)		18 dBm	
	VHT80(MCS9)		16 dBm	
	HE20(MCS0)	18 dBm	18 dBm	18 dBm
	HE20(MCS11)	16 dBm	16 dBm	15 dBm
	HE40(MCS0)	18 dBm	18 dBm	18 dBm
	HE40(MCS11)	16 dBm	16 dBm	15 dBm
	HE80(MCS0)		18 dBm	18 dBm
	HE80(MCS11)		16 dBm	16 dBm
	HE160(MCS0)		18 dBm	18 dBm
	HE160(MCS11)		16 dBm	16 dBm
	EHT20(MCS0)	18 dBm	18 dBm	18 dBm
	EHT20(MCS13)	15 dBm	15 dBm	14 dBm
	EHT40(MCS0)	18 dBm	18 dBm	18 dBm
	EHT40(MCS13)	15 dBm	15 dBm	14 dBm
	EHT80(MCS0)		18 dBm	18 dBm
	EHT80(MCS13)		15 dBm	15 dBm
	EHT160(MCS0)		18 dBm	18 dBm
	EHT160(MCS13)		15 dBm	15 dBm
	EHT320(MCS0)			18 dBm
	EHT320(MCS13)			15 dBm
	Note: Maximum transmit power is limited by local regulatory settings			
Power	• Supports direct DC power and Power over Ethernet (PoE) • When both power sources are available, DC power takes priority over PoE • Direct DC source: ¬ 40~57V • PoE: ¬ IEEE 802.3bt-compliant source ¬ PoE redundancy when using Eth0 and Eth1 at 802.3bt ¬ Load sharing when using Eth0 and Eth1 at 802.3at • Maximum (worst case) power consumption: ¬ 51W (single or dual input IEEE 802.3bt PoE); unrestricted functionality ¬ 26.6W (single input IEEE 802.3at PoE); Eth0 works at 2.5GE, Eth1 disabled, SFP+ port disabled, USB port disabled, 2.4GHz radio operating in 2x2 mode, 5GHz radio operating in 2x2 mode, 6GHz radio operating in 2x2 mode. Scanning Radio and IoT Radio enabled.			
Mounting	Ceiling/wall mounting (Mount kit needs to be ordered separately)			
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)			
Dimensions/Weight	• Single AP excluding packing box and accessories: ¬ 260mm (W) x 260mm (D) x 57.4mm (H) - 10.24" (W) x 10.24" (D) x 2.26" (H) ¬ 1950g/4.3lb • Single AP including packing box and accessories: ¬ 327mm (W) x 306mm (D) x 111mm (H) - 12.87" (W) x 12.05" (D) x 4.37" (H) ¬ 2320g/5.11lb			
Reliability	• MTBF: 554,332hours (63.28years) at +25ºC operating temperature			
Capacity	• Up to 16 SSIDs/Radio • Support for up to 1536 associated client devices			

Features	Description
Software features	• Up to 5K APs when managed by OmniVista Terra, no limit on number of AP groups • Up to 20K APs when managed by OmniVista Cirrus, no limit on number of AP groups • 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 OmniVista • Captive portal (Internal/External) • Guest self-registration optional SMS notification) with UPAM and OmniVista • Internal user database UPAM and OmniVista • RADIUS client UPAM and OmniVista • Guest social-login with UPAM and OmniVista • RADIUS proxy authentication with UPAM and OmniVista • LDAP/AD proxy authentication with UPAM and OmniVista • Wireless QoS • Band steering • Client smart load balance • Client sticky avoidance • User behavior tracking • White/Block list • Zero-touch provisioning (ZTP) • NTP Client • ACL • DHCP/DNS/NAT • Wireless MESH P2P/P2MP • Wireless Bridge • Rogue AP location and containment • Dedicated Scanning AP • System log report • SSHv2 • SNMPv2 • Wireless attack detection with OmniVista • Floor plan and heat map with OmniVista • RTLS
IEEE Standard	• IEEE 802.11a/b/g/n/ac/ax/be • IEEE 802.11e WMM, U-APSD • IEEE 802.11h, 802.11i, 802.11e QoS • IEEE 802.1Q (VLAN Tagging) • 802.11w Protected Management Frames • 802.11k Radio Resource Management • 802.11v BSS Transition Management • 802.11r Fast roaming
Regulatory & certification	• CB Scheme Safety, cTUVus • Wi-Fi CERTIFIED Wi-Fi 7, Passpoint R3 • FCC • CE Marked • Bluetooth SIG • RoHS, REACH, WEEE • UL2043 Plenum rating • 2014/35/EU Low Voltage Directive • 2014/30/EU EMC Directive • 2011/65/EU RoHS Directive • 2014/53/EU Radio Equipment Directive • EN 55032 • EN 55035 • EN 60601-1-1 & EN 606011--2- • IEC/EN 60950 and 62368 • EN 300 328 • EN 301 893 • EN 301 489-1 • EN 301 489-17 • EN 62311 • EN 303 687

Ordering Information

Access Points	Description
OAW-AP1541-RW	OmniAccess Stellar AP1541 Wi-Fi 7. Tri radio 2.4GHz+5GHz+5GHz/6GHz 4x4 802.11be, integrated omni antenna. Scanning radio, IoT radio. 1x10GE, 1 combo 10GE/SFP+, Console, USB, 48VDC. AP mount ordered separately. Not use in US, Egypt, Japan.
OAW-AP1541-US	OmniAccess Stellar AP1541 Wi-Fi 7. Tri radio 2.4GHz+5GHz+5GHz/6GHz 4x4 802.11be, integrated omni antenna. Scanning radio, IoT radio. 1x10GE, 1 combo 10GE/SFP+, Console, USB, 48VDC. AP mount ordered separately. Restricted Domain: US.
OAW-AP1542-RW	OmniAccess Stellar AP1542 Wi-Fi 7. Tri radio 2.4GHz+5GHz+5GHz/6GHz 4x4 802.11be, external antenna RPSMA female connectors. Scanning radio, IoT radio. 1x10GE, 1 combo 10GE/SFP+, Console, USB, 48VDC. AP mount ordered separately. Not use in US, Egypt, Japan.
OAW-AP1542-US	OmniAccess Stellar AP1542 Wi-Fi 7. Tri radio 2.4GHz+5GHz+5GHz/6GHz 4x4 802.11be, external antenna RPSMA female connectors. Scanning radio, IoT radio. 1x10GE, 1 combo 10GE/SFP+, Console, USB, 48VDC. AP mount ordered separately. Restricted Domain: US.

Accessories	Description
AP-MNT-IN-BE	Indoor mounting kit enhanced, Type B1 (9/16) and Type B2 (15/16) for T shaped ceiling rail mounting. Applicable for OmniAccess Stellar Indoor AP1101, AP12xx, AP13xx, AP14xx and AP15xx series
AP-MNT-IN-CE	Indoor mounting kit enhanced, Type C1 (Open Silhouette) and C2 (Flanged Interlude), for other shaped ceiling rail mounting. Applicable for OmniAccess Stellar Indoor AP1101, AP12xx, AP13xx, AP14xx and AP15xx series.
AP-MNT-IN-WE	Indoor Mounting kit for flat surface: wall/ceiling/junction-box mount with screws. Stainless Steel. Applicable for OmniAccess Stellar AP13xx, AP14xx and AP15xx.
AP-MNT-IN-WE2	Indoor Mounting kit for flat surface: wall/ceiling/junction-box mount with screws. High-Density Plastic. Wide compatibility. Applicable for OmniAccess Stellar AP13xx, AP14xx and AP15xx.
POE60U-1BT-X-R	1-Port IEEE 802.3bt PoE Midspan. Port speed 10G PoE power 60W. No power cord included. Please order PWR- CORD-XX for country specific power cord.
External antennas for AP1542 TBC	

Warranty

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

Services and support

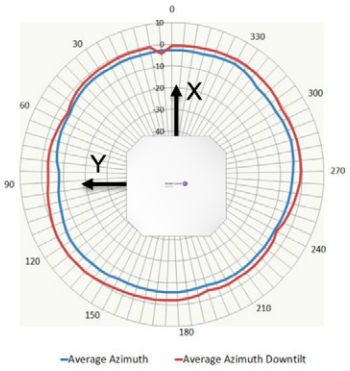
For information about our Professional services, Support services and Managed services, please go to:

https://www.al-enterprise.com/en/services

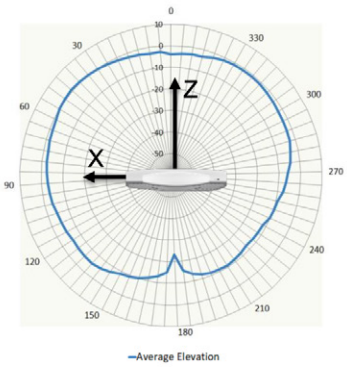
Figures. OmniAccess AP1541 series antenna pattern plots

Antenna pattern plots -2.45GHz

Horizontal



Vertical



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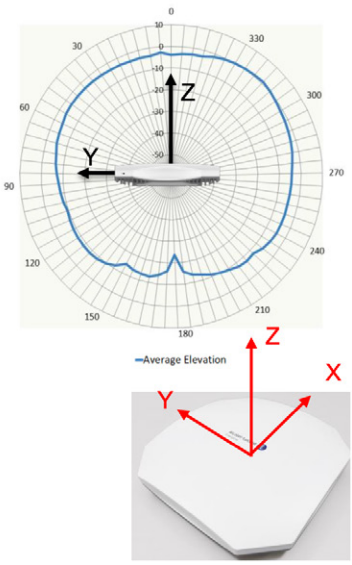
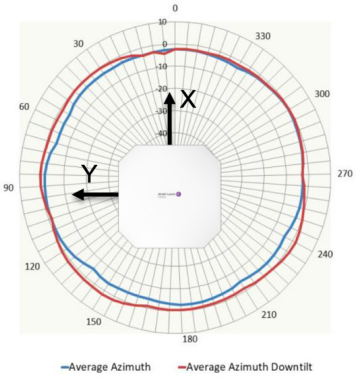
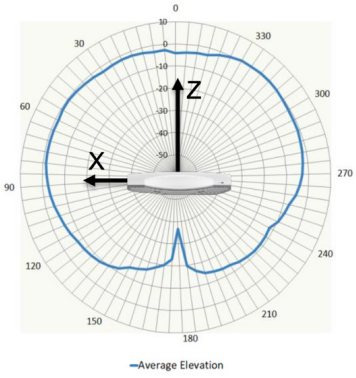


Antenna pattern plots -5.55GHz

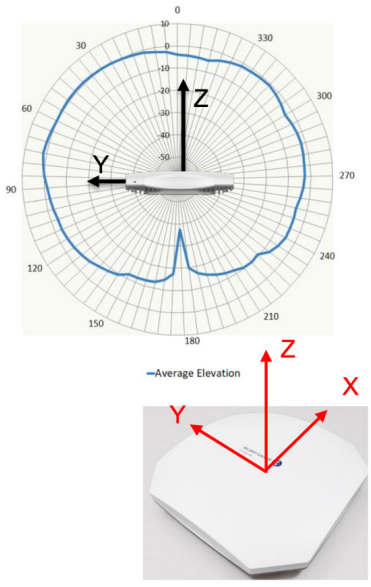
Horizontal



Vertical



Vertical



Antenna pattern plots -6.55GHz

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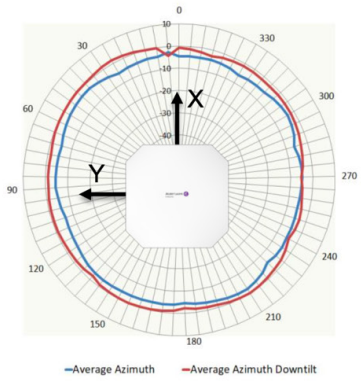
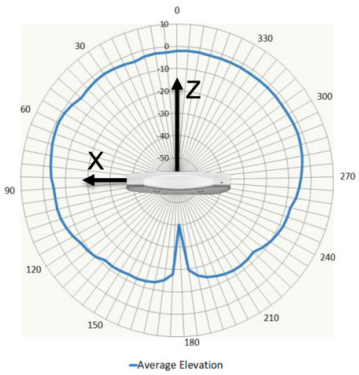
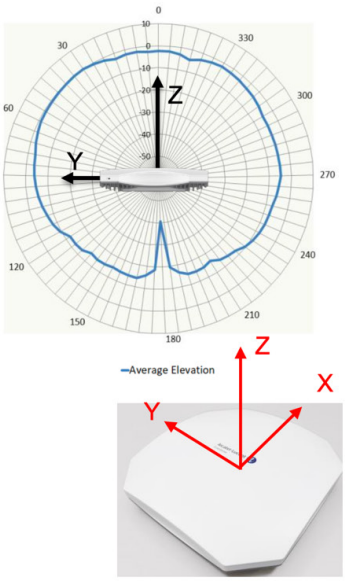


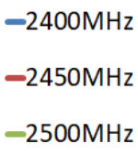
Vertical



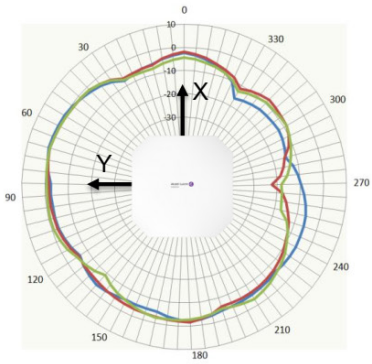
Vertical



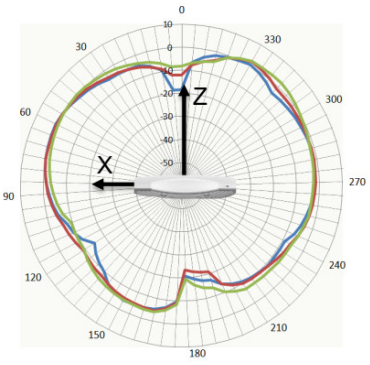
Antenna pattern plots – BLE radio



Theta=90°



Phi=0°



Phi=90°