



## The perfect fit for business

Enterprise wireless LAN reliability with operational simplicity

### Next generation Wi-Fi for next generation business

Across the networking industry, building wireless LANs that deliver a combination of enterprise grade capability and operational simplicity will become the new standard for business networking.

Why? Wi-Fi is no longer a nice-to-have, but a business necessity, expectations of what it can deliver and how easy it should be to use for mobility, are being radically redefined. Once, the expectation may have been that deploying a wireless LAN within the enterprise would be a laborious, complex and potentially costly task. Now, the goal is to make the process simple and seamless.

The Alcatel-Lucent [OmniAccess® Stellar WLAN](#) solution addresses this goal, delivering hardworking Wi-Fi with a personal touch. It doesn't lock you into proprietary systems and it addresses the individual needs of your business. The OmniAccess Stellar WLAN portfolio offers a full range of access points including the latest Wi-Fi 6 technology.

The OmniAccess Stellar WLAN portfolio offers a full range of access points including the latest Wi-Fi 6 technology. It embodies the transition currently underway in wireless networking and is designed with:

- **Simplicity:** High speed Wi-Fi with optimal radio coverage, yet simple to deploy and scale
- **Performance:** Distributed intelligent architecture for better performance and high availability
- **User centricity:** Easy to connect to, excellent quality and secure user experience for employees and guests
- **IoT readiness:** Provides unique IoT identification and secure IoT containment technology - so you can use and deploy your own IoT solutions with confidence
- **Analytics capability:** Smart analytics monitor and control applications to help manage and drive strategic business decisions
- **Unified management:** Native unified access for LAN and WLAN with cloud enabled management that guarantees the best quality of service
- **Evolution:** A future-proof solution built on the latest technologies, innovations and services



OmniAccess Stellar  
[OAW-AP1320 Series](#)  
Indoor Wi-Fi 6 access point



## Built for efficiency

One of the main differentiators for this new class of enterprise level wireless LAN solution is the support for multiple access points, managed from a single interface. The OmniAccess Stellar WLAN solution delivers these capabilities with:

- Distributed controller architecture
- Unified Policy Authentication Manager (UPAM)
  - Secure authentication of employees and guests
  - Guest access - self-registration, employee sponsored login, authentication through social login, including [Alcatel-Lucent Rainbow™](#)
  - Intent based policy enforcement
  - Extensive captive portal customization
- Simplified management of access groups
- Up to 4000 access points spread across one or more groups

## Built for security

Data is one of the most valuable assets a business has – an asset that is vulnerable while moving across networks. With that in mind, the OmniAccess Stellar WLAN solution is designed for exceptional security with features including:

- Secure network access control (NAC) with [Unified Access technology](#)
- Smart Analytics application monitoring and enforcement
- UPnP/Bonjour service sharing
- [IoT enablement](#) that makes connection to any device easy and secure

## Secure BYOD functionalities

- Domain authentication and device registration
- Device fingerprinting
- External database support for employee authentication

## Built for productivity and collaboration

The OmniAccess Stellar WLAN brings unparalleled experience for connectivity, coverage and performance for the modern IoT connected Enterprise. The OmniAccess Stellar WLAN product line is built to boost productivity by helping. It enables a visionary distributed Wi-Fi architecture with centralized management and policy control, enforcing security at every step starting at the network edge, and allowing unparalleled scale in network capacity. This architecture is vital for enabling the next generation Digital Enterprise that demands business agility, seamless mobility and secure IoT enabled infrastructure empowering business transformation through continuous innovation. People work together more effectively, while ensuring network security. It's hardworking Wi-Fi for hardworking people.

## Built to grow with your business

The OmniAccess Stellar WLAN portfolio of Wi-Fi 6 and Wi-Fi 5 access points address today's challenging mobility and IoT demands, making tomorrow's diverse digital workspaces highly reliable and efficient.

Wi-Fi 6 (802.11ax) is designed to address dense growing capacity and IoT efficiency needs of next generation Enterprise wireless networks. OmniAccess Stellar WLAN brings integrated Bluetooth/Zigbee and dedicated Wi-Fi scanning radio technology on Wi-Fi 6 Access Points providing a framework for expanded IoT, security and location analytics services. .

## 802.11ax (Wi-Fi 6) wireless access points

AP1321 High end	AP1322 High end	AP1361 Ruggedized/Outdoor	AP1361D Ruggedized/Outdoor	AP1362 Ruggedized/Outdoor
Tri-radio	Tri-radio	Tri-radio	Tri-radio	Tri-radio
5 GHz: 4x4:4SS HE80 2.4 Gb/s	5 GHz: 4x4:4SS HE80 2.4 Gb/s	5 GHz: 4x4:4SS HE80 2.4 Gb/s	5 GHz: 4x4:4SS HE80 2.4 Gb/s	5 GHz: 4x4:4SS HE80 2.4 Gb/s
2.4 GHz: 2x2:2SS HE40 573 Mb/s	2.4 GHz: 2x2:2SS HE40 573 Mb/s	2.4 GHz: 2x2:2SS HE40 573 Mb/s	2.4 GHz: 2x2:2SS HE40 573 Mb/s	2.4 GHz: 2x2:2SS HE40 573 Mb/s
Dedicated 1x1 full band scanning radio	Dedicated 1x1 full band scanning radio	Dedicated 1x1 full band scanning radio	Dedicated 1x1 full band scanning radio	Dedicated 1x1 full band scanning radio
OFDMA, DL-UL-MU-MIMO	OFDMA, DL-UL-MU-MIMO	OFDMA, DL-UL-MU-MIMO	OFDMA, DL-UL-MU-MIMO	OFDMA, DL-UL-MU-MIMO
Integrated BLE 5.1/802.15.4	Integrated BLE 5.1/802.15.4	Integrated BLE 5.1/802.15.4	Integrated BLE 5.1/802.15.4	Integrated BLE 5.1/802.15.4
1x GbE + 1x2.5 GbE network uplink 802.3 at PoE, RJ-45 console, USB port, Reset, 48V DC	1x GbE + 1x2.5 GbE network uplink 802.3 at PoE, RJ-45 console, USB port, Reset, 48V DC	1x2.5 GbE + 1 SFP GbE network uplink 802.3 at/bt PoE, 1x GbE downlink (PSE 802.3 at)  Micro-USB console port, Reset, 48V DC	1x2.5 GbE + 1 SFP GbE network uplink 802.3 at/bt PoE, 1x GbE downlink (PSE 802.3 at)  Micro-USB console port, Reset, 48V DC	1x2.5 GbE + 1 SFP GbE network uplink 802.3 at/bt PoE, 1x GbE downlink (PSE 802.3 at)  Micro-USB console port, Reset 48V DC
Enterprise temperature range, plenum rated	Enterprise temperature range, plenum rated	Operating temperature: -40°C to 65°C (-40°F to +149°F), IP67 standard	Operating temperature: -40°C to 65°C (-40°F to +149°F), IP67 standard	Operating temperature: -40°C to 65°C (-40°F to +149°F), IP67 standard
Built-in omni antenna	External antenna	Built-in antenna	Built-in directional antenna	External antenna

Wi-Fi 5 (802.11ac) is designed to address most demanding Enterprise needs for a robust and efficient wireless network. OmniAccess Stellar WLAN provides a broad and versatile portfolio for varying deployment use cases within an Enterprise. Selected Wi-Fi 5 Access Points have integrated Bluetooth/Zigbee radio technology enabling IoT building automation and location analytics services.

## 802.11ac (Wave 2 or Wi-Fi 5) wireless access points

Entry level AP1101	Entry level AP1201	Wall box AP1201H	Mid-level AP1220 Series	High end AP1230 Series	Ruggedized/Outdoor AP1251
Dual radio	Dual radio	Dual radio	Dual radio	Tri radio	Dual radio
2x2:2SS VHT40	2x2:2SS VHT80 and Integrated BLE	2x2:2SS VHT80	4x4:4SS VHT160	4x4:4SS VHT160 and Integrated BLE	2x2:2SS VHT80
2.4 GHz and 5 GHz band support	5 GHz radio: 867 Mb/s (with 2SS/VHT80 clients)	5 GHz radio: 867 Mb/s (with 2SS/VHT80 clients)	5 GHz radio: 1733 Mb/s (with 4SS/VHT80 clients or 2SS/VHT160 clients)	First 5 GHz radio: 1733 Mb/s (with 4SS/VHT80 clients or 2SS/VHT160 clients)	5 GHz radio: 867 Mb/s (with 2SS/VHT80 clients)
Up to 867 Mb/s 5 GHz	2.4 GHz radio: 400 Mb/s 2.4 GHz (2SS/VHT40)	2.4 GHz radio: 300 Mb/s 2.4 GHz (2SS/HT40)	2.4 GHz radio: 400 Mb/s 2.4 GHz (2SS/VHT40)	Second Multiband radio: 1733 Mb/s (with 4SS/VHT80 clients or 2SS/VHT160 clients) or monitoring radio  Third 2.4 GHz radio: 800 Mb/s 2.4 GHz (4SS/VHT40)	2.4 GHz radio: 400 Mb/s 2.4 GHz (2SS/VHT40)
Up to 300 Mb/s 2.4 GHz	MU-MIMO	MU-MIMO	MU-MIMO	MU-MIMO	MU-MIMO
Up to 16 SSID (8 SSID per radio)	Integrated BLE radio	Optional BLE radio through USB port	Optional BLE radio through USB port	Integrated BLE radio	
1x GbE network interface, RJ-45 console, reset 802.3af PoE/48V DC	1x GbE network interface, RJ-45 console, reset 802.3at PoE compliant/48V DC	1x GbE network uplink interface, 3x GbE downlink interfaces, RJ-45 passthrough pair, USB port, reset 802.3af PoE compliant/48V DC	1x GbE network interface, RJ-45 console, USB port, reset 802.3at PoE compliant/ 48V DC	1x GbE + 1x2.5 GbE network interfaces, RJ-45 console, USB port, reset 802.3 at PoE (60W) compliant/ 48V DC	2x GbE network interface, Micro-USB console port, reset 802.3af PoE compliant/ 48V DC
Enterprise temperature range, plenum rated	Enterprise temperature range, plenum rated	Enterprise temperature range, plenum rated	Enterprise temperature range, plenum rated	Enterprise temperature range, plenum rated	Operating temperature: -40°C to 65°C (-40°F to +149°F), IP67 standard
Built-in antenna	Built-in antenna	Built-in antenna	Built-in antenna (OAW-AP1221)	Built-in antenna (OAW-AP1231)	Built-in antenna
			External antenna connectors (OAW-AP1222)	External antenna connectors (OAW-AP1232)	

To find out more about the Alcatel-Lucent OmniAccess Stellar WLAN solution visit <https://www.al-enterprise.com/en/stellar>