



OmniAccess Stellar Product Line Matrix

WLAN product comparison guide



	AP1572	AP1571	AP1561	AP1542	AP1541
WI-FI STANDARD	802.11be - Wi-Fi 7 Retro-compatible		802.11be - Wi-Fi 7 Retro-compatible	802.11be - Wi-Fi 7 Retro-compatible	
TYPE OF USE	Outdoor		Outdoor / Industrial	Indoor	
MAX THROUGHPUT	9,328 Gbps		9,328 Gbps	18.67 Gbps	
NB OF RADIOS	5 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)		3 radios	5 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)	
SUPPORT BANDS	2.4GHz, 5GHz & 6GHz (1)		2.4GHz, 5GHz & 6GHz (1)	2.4GHz, 5GHz & 6GHz (1)	
RADIO MIMO TYPE	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams		x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	
OFDMA / OFDM	OFDMA		OFDMA	OFDMA	
MAX NB OF SSIDs (per AP)	48		48	48	
MAX NB OF ASSOCIATED CLIENTS (per AP)	768		768	1536	
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz/6GHz)	30.8dBm / 31.0dBm / 28.2dBm		31.9dBm / 31.0dBm / 31.2dBm	25dBm / 29dBm / 29dBm	
INTEGRATED ANTENNAS	✗	✓ Omnidirectional	High Aperture Sector 90°x90° - Wall/Front deployment	✗	✓ Omnidirectional
ANTENNA PEAK GAIN (2.4 GHz / 5GHz / 6GHz)	Depends on external antenna	5.8dBi / 8.0dBi / 6.2dBi	6.9dBi / 8.0dBi / 8.2dBi	Depends on external antenna	4.6dBi / 5.8dBi / 6.2dBi
RF CONNECTORS (RF-SMA)	N-Type female	✗	✗	RPSMA female	✗
TPM MODULE 2.0	✓		✓	✓	
NETWORK INTERFACES	100M/1G/2.5G/5G/10G uplink		100M/1G/2.5G/5G uplink	1 x 10GE multi-gigabit + 1 x Dual Purpose 10GE multi-gigabit R	
USB HOST INTERFACE	✓ USB 2.0 Type C		✗	✓ USB 2.0 Type C	
BLE or ZIGBEE	BLE 5.1/Zigbee Integrated		✗	BLE 5.1/Zigbee Integrated	
WAN RESILIENCY	✗		✗	✓	
PoE RESILIENCY/ LOADSHARING	✗		✗	✓	
PoE POWERED	802.3bt/at (2)		802.3at	802.3bt or Dual 802.3at	
PoE PSE	✓		✗	✗	
DC POWER SUPPORT	✓		Only PoE	✓	
OPERATING TEMP RANGE	-40°C to 65°C		-40°C to 65°C	0°C to 45°C	
ENCLOSURE VOLUME (excluding packing box & accessories)	243mm (W) x 243mm (D) x 85mm (H)		243mm (W) x 243mm (D) x 85mm (H)	210mm (W) x 210mm (D) x 43mm (H)	
WEIGHT (excluding packing box & accessories)	2500g	2684g	1700g	1980g	1950g
RATING	IP67		IP67	UL2043 (plenum rated)	
DEEP PACKET INSPECTION	✓		✓	✓	
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	63.04W		23.64W	51W	
SHIPPED WITH MOUNTING KIT	✗ To be ordered separately		✗ To be ordered separately	✗ To be ordered separately	

(1) 6GHz Radio is Software configurable and can operate at 5GHz in countries/zone where regulations do not allow operating 6GHz outdoors (like EU)

(2) Operating with IEEE 802.3at may disable some features to keep power consumption below the standard power of 802.3at.

				
AP1541	AP1521	AP1511	AP1501	AP1501S
Model	802.11be - Wi-Fi 7 Retro-compatible	802.11be - Wi-Fi 7 Retro-compatible	802.11be - Wi-Fi 7 Retro-compatible	802.11be - Wi-Fi 7 Retro-compatible
Environment	Indoor	Indoor	Indoor	Indoor
Throughput	12.2 Gbps	9.328 Gbps	9.328 Gbps	3.57 Gbps
Radios	5 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)	4 (incl. 1 BLE/Zigbee radio)	3 radios	2 radios
Frequencies	2.4GHz, 5GHz & 6GHz	2.4GHz, 5GHz & 6GHz	2.4GHz, 5GHz & 6GHz (1)	2.4GHz & 5GHz
MIMO	x8 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDMA	OFDMA	OFDMA	OFDMA	OFDMA
SSIDs	48	48	24	16
Channels	1280	768	768	128
Power	25dBm / 29dBm / 27dBm	26dBm / 26dBm / 27dBm	26dBm / 26dBm / 27dBm	26dBm / 26dBm
Directional	✓ Omnidirectional	✓ Omnidirectional	✓ Omnidirectional	✓ Omnidirectional
Gain	4.6dBi / 5.8dBi / 6.4dBi	5.6dBi / 5.9dBi / 6.4dBi	5.6 dBi / 5.9 dBi / 6.4 dBi	5.6 dBi / 5.9 dBi
Antennas	×	×	×	×
Beamforming	✓	✓	×	×
Ports	1 x 10GbE + 1 x 1GbE	1 x 5GbE	100M/1G/2.5G uplink	100M/1G/2.5G uplink
USB	✓ USB 2.0 Type C	✓ USB 2.0 Type C	✓ USB 2.0 Type C	×
Bluetooth	BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated	×	×
Bluetooth	✓	×	×	×
Bluetooth	×	×	×	×
Bluetooth	802.3at/bt	802.3at	802.3at	802.3at
Bluetooth	×	×	×	×
Bluetooth	✓	✓	✓ (48V DC)	✓ (48V DC)
Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 40°C
Dimensions (H)	210mm (W) x 210mm (D) x 43mm (H)	190mm (W) x 190mm (D) x 38mm (H)	190mm (W) x 190mm (D) x 38mm (H)	190mm (W) x 190mm (D) x 38mm (H)
Weight	1020g	764g	760g	550g
Fire Rating	UL2043 (plenum rated)	UL2043 (plenum rated)	UL2043 (plenum rated)	UL2043 (plenum rated)
Energy Star	✓	✓	✓	✓
Power	40.2W	23.4W	22.19W	15W
Accessories	×	×	×	×

Wi-Fi 7 Access Points

Wi-Fi 7 extends the features and capabilities of Wi-Fi 6/6E into the 6GHz band, in addition to the 2.5GHz and 5GHz bands and includes support for up to four super-wide 320 MHz channels.

This Wi-Fi generation goes beyond using three bands to optimize spectral efficiency to increase more devices and users within the available frequency bands.

Moreover, Wi-Fi 7 improved reliability and performance to provide a more stable and robust wireless experience especially in dense areas of Wi-Fi devices.



	AP1451	AP1431
WI-FI STANDARD	802.11ax - Wi-Fi 6E Retro-compatible	802.11ax - Wi-Fi 6E Retro-compatible
TYPE OF USE	Indoor	Indoor
MAX THROUGHPUT	10 Gbps	4.2 Gbps
NB OF RADIOS	5 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)	4 (incl. 1 BLE/Zigbee radio)
SUPPORT BANDS	2.4GHz, 5GHz & 6GHz	2.4GHz, 5GHz & 6GHz
RADIO MIMO TYPE	x8 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDMA / OFDM	OFDMA	OFDMA
MAX NB OF SSIDs (per AP)	48	16 (limit to 4 on 6GHz)
MAX NB OF ASSOCIATED CLIENTS (per AP)	1536	1536
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz)	24dBm / 27dBm / 22 dBm	25dBm / 25dBm / 25dBm
INTEGRATED ANTENNAS	✓ Omnidirectional	✓ Omnidirectional
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	3.9 dBi	4.5 dBi
RF CONNECTORS (RF-SMA)	✗	✗
TPM MODULE 2.0	✓	✓
NETWORK INTERFACES	2 x1 / 2.5 / 5 / 10GE	2x 1/2.5GE uplinks
USB HOST INTERFACE	✓ USB 3.0 Type A	✓ USB 3.0 Type A
BLE or ZIGBEE	BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated
WAN RESILIENCY	✓	✓
PoE RESILIENCY/LOADSHARING	Active / Active	Active / Active
PoE POWERED	802.3bt	802.3bt
PoE PSE	✗	✗
DC POWER SUPPORT	✓	✓
OPERATING TEMP RANGE	0°C to 45°C	0°C to 45°C
ENCLOSURE VOLUME (excluding packing box & accessories)	260mm (W) x 260mm (D) x 60mm (H)	180 mm (W) x 180 mm (D) x 36 mm (H)
WEIGHT (excluding packing box & accessories)	2370 g	985 g
RATING	UL2043 (plenum rated)	UL2043 (plenum rated)
DEEP PACKET INSPECTION	✓	✓
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	49W	34W
SHIPPED WITH MOUNTING KIT	✗ To be ordered separately	✗ To be ordered separately

Wi-Fi 6E Indoor Access Points

Wi-Fi 6E extends the features and capabilities of Wi-Fi 6 into the 6GHz frequency band, in addition to the existing 2.4 GHz and 5GHz bands. It includes support for up to fourteen 80MHz channels or seven super-wide 160 MHz channels.

Using the 6GHz band means getting rid of the overhead and traffic from legacy devices, and in consequence, having better connectivity and less interference. What it all comes down to is the ability to support more bandwidth-intensive applications.





	AP1362	AP1361D	AP1361	AP1351	AP1331
WI-FI STANDARD	802.11ax - Wi-Fi 6 Retro-compatible			802.11ax - Wi-Fi 6 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible
TYPE OF USE	Outdoor			Indoor	Indoor
MAX THROUGHPUT	3 Gbps			10 Gbps	3.55 Gbps
NB OF RADIOS	4 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)			5 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)	4 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)
SUPPORT BANDS	2.4GHz & 5GHz			2.4GHz & 5GHz	2.4GHz & 5GHz
RADIO MIMO TYPE	x4 Downlink & Uplink MU-MIMO simultaneous spatial streams			x8 Downlink & Uplink MU-MIMO simultaneous spatial streams	x4 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDMA / OFDM	OFDMA			OFDMA	OFDMA
MAX NB OF SSIDs (per AP)	32			24	32
MAX NB OF ASSOCIATED CLIENTS (per AP)	1024			1536	1024
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz/6GHz)	20dBm/20dBm			18dBm/18dBm	18dBm / 18dBm
INTEGRATED ANTENNAS	✗	✓ Directional	✓ Omni	✓ Omnidirectional	✓ Omnidirectional
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	ref. page 4	7.5/7.4 dBi	4.85/6.48 dBi	3.9/3.9 dBi	3.9dBi / 4.6dBi
RF CONNECTORS (RF-SMA)	6 N-Type	✗		✗	✗
TPM MODULE 2.0	✓			✓	✓
NETWORK INTERFACES	2.5GE + 1 SFP port + 1GE (IoT)			2 x 1 / 2.5 / 5 / 10GE	2x5GE uplink
USB HOST INTERFACE	✗	✓ USB 2.0 Type C		✓ USB 3.0 Type A	✓ USB 3.0 Type A
BLE or ZIGBEE	BLE 5.1/Zigbee Integrated			BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated
WAN RESILIENCY	✗			✓	✓
PoE RESILIENCY/LOADSHARING	✗			Active / Active	Active / Active
PoE POWERED	802.3bt/at			802.3bt	802.3bt/at
PoE PSE	15.4W/30W			✗	✗
DC POWER SUPPORT	✗			48V DC (nominal)	48V DC (nominal)
OPERATING TEMP RANGE	-40°C to +65°C			0°C to 45°C	0°C to 45°C
ENCLOSURE VOLUME (excluding packing box & accessories)	243mm (W) x 243mm (D) x 85mm (H)			260mm (W) x 260mm (D) x 60mm (H)	210mm (W) x 210mm (D) x 40mm (H)
WEIGHT (excluding packing box & accessories)	2230 g			1200 g	985g
RATING	IP67			UL2043 (plenum rated)	UL2043 (plenum rated)
DEEP PACKET INSPECTION	✓			✓	✓
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	70 W			50 W	23 W
SHIPPED WITH MOUNTING KIT	✗ To be ordered separately			✗ To be ordered separately	✗ To be ordered separately

31	AP1301	AP1301H
- Wi-Fi 6 Compatible	802.11ax - Wi-Fi 6 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible
Indoor	Indoor	Hospitality/Remote access
1.77 Gbps	1.77 Gbps	1.77 Gbps
2	2	3 (incl. 1 BLE/Zigbee radio)
2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz
Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDMA	OFDMA	OFDMA
16	16	32
512	512	1024
18dBm	18dBm / 18dBm	18dBm / 18dBm
Omnidirectional	✓ Omnidirectional	✓ Omnidirectional
3.3dBi	3.3dBi / 3.3dBi	3.92dBi / 4.41dBi
	✗	✗
	✗	✗
2x1GE	2x1GE	1GE uplink + 4GE downlink + 1 pair RJ45 passthrough
✓ USB 2.0 Type C	✓ USB 2.0 Type C	✓ USB 2.0 Type A
BLE Integrated	✗	BLE 5.1 /Zigbee Integrated
✓	✓	✗
Active	Active / Standby	✗
802.3af	802.3af	802.3at/af
✗	✗	✓ 802.3af
48V DC (nominal)	48V DC (nominal)	48V DC (nominal)
0°C to 45°C	0°C to 45°C	0°C to 45°C
180 mm (W) x 180 mm (D) x 36 mm (H)	180 mm (W) x 180 mm (D) x 36 mm (H)	86 mm (W) x 29 mm (D) x 162.5 mm (H)
574 g	574 g	320 g
UL2043 (plenum rated)	UL2043 (plenum rated)	✗ N/A
✓	✓	✓
13.1 W	13.1 W	12.7 W
✗ To be ordered separately	✗ To be ordered separately	✓ Wall mounting kit

Wi-Fi 6 Access Points



OmniAccess Stellar

Based on Alcatel-Lucent distributed WLAN control architecture

Alcatel-Lucent **OmniAccess Stellar products embed WLAN control in all access points (APs)** eliminating the need for physical centralised controllers.

Alcatel-Lucent smart and advanced APs are managed as a single system or cluster, in a distributed and coordinated manner.

Distributed architecture from Alcatel-Lucent delivers the best performance and scalability, and ensures high availability, with operational simplicity and low Total Cost of Ownership (TCO).



**Enterprise
grade Wi-Fi.
Operational
simplicity.**

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