



OmniAccess Stellar Product Line Matrix

WLAN product & antenna comparison guide

	AP1451	AP1351	AP1331	AP1322	AP1321	AP1311	AP1301
WI-FI STANDARD	802.11ax - Wi-Fi 6E Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible		802.11ax - Wi-Fi 6 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible
TYPE OF USE	Indoor	Indoor	Indoor	Indoor		Indoor	Indoor
MAX THROUGHPUT	10 Gbps	10 Gbps	3.55 Gbps	3 Gbps		1,77 Gbps	1,77 Gbps
NB OF RADIOS	5 (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)	4 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)		4 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)	2
SUPPORT BANDS	2.4GHz, 5GHz & 6GHz	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz		2.4GHz & 5GHz	2.4GHz & 5GHz
RADIO MIMO TYPE	x8 Downlink & Uplink MU-MIMO simultaneous spatial streams	x8 Downlink & Uplink MU-MIMO simultaneous spatial streams	x4 Downlink & Uplink MU-MIMO simultaneous spatial streams	x4 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	OFDMA		OFDMA	OFDMA
MAX NB OF SSIDs (per AP)	48	24	32	32		16	16
MAX NB OF ASSOCIATED CLIENTS (per AP)	1536	1536	1024	1024		512	512
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz/6GHz)	24dBm / 27dBm / 22 dBm	18dBm/18dBm	18dBm / 18dBm	18dBm / 18dBm		18dBm / 18dBm	18dBm / 18dBm
INTEGRATED ANTENNAS	✓ Omni	✓ Omni	✓ Omni	✗	✓ Omni	✓ Omni	✓ Omni
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	3.9 dBi	3.9/3.9 dBi	3.9dBi / 4.6dBi	(ref page 4)	3.61dBi/4.45dBi	3.3dBi / 3.3dBi	3.3dBi / 3.3dBi
RF CONNECTORS (RF-SMA)	✗	✗	✗	4 RP-SMA	✗	✗	✗
TPM MODULE	✓	✓	✓	✓		✓	✗
NETWORK INTERFACES	2 x1 / 2.5 / 5 / 10GE	2 x 1 / 2.5 / 5 / 10GE	2x5GE uplinks	1GE + 2.5GE		2x1GE + 1GE (IoT)	2x1GE
USB HOST INTERFACE	✓ USB 3.0 Type A	✓ USB 3.0 Type A	✓ USB 3.0 Type A	✓ USB 2.0 Type A		✓ USB 2.0 Type C	✓ USB 2.0 Type C
BLE or ZIGBEE	BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated	BLE 5.1/Zigbee Integrated		BLE 5.1 /Zigbee Integrated	✗
PoE POWERED	802.3bt	802.3bt	802.3bt/at	802.3at (max 18W)		802.3af/at	802.3af
PoE PSE	✗	✗	✗	✗		✗	✗
DC POWER SUPPORT	✓	48V DC (nominal)	48V DC (nominal)	48V DC		48V DC (nominal)	48V DC (nominal)
OPERATING TEMP RANGE	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 50°C		0°C to 45°C	0°C to 45°C
ENCLOSURE VOLUME (excluding packing box & accessories)	260mm (W) x 260mm (D) x 60mm (H)	260mm (W) x 260mm (D) x 60mm (H)	210mm (W) x 210mm (D) x 40mm (H)	180 mm (W) x 180 mm (D) x 36 mm (H)		180 mm (W) x 180 mm (D) x 36 mm (H)	180 mm (W) x 180 mm (D) x 36 mm (H)
WEIGHT (excluding packing box & accessories)	2370 g	1200 g	985g	700 g		582 g	574 g
RATING	UL2043 (plenum rated)	UL2043 (plenum rated) : Under testing	UL2043 (plenum rated)	UL2043 (plenum rated)		UL2043 (plenum rated) : Under testing	UL2043 (plenum rated)
DEEP PACKET INSPECTION	✓	✓	✓	✓		✓	✓
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	49W	50 W	23 W	24.8 W		19.1 W	13.1 W
SHIPPED WITH MOUNTING KIT	✗ To be ordered separately	✗ To be ordered separately	✗ To be ordered separately	✗ To be ordered separately		✗ To be ordered separately	✗ To be ordered separately

WI-FI STANDARD
TYPE OF USE
MAX THROUGHPUT
NB OF RADIOS
SUPPORT BANDS
RADIO MIMO TYPE
OFDMA / OFDM
MAX NB OF SSIDs (per AP)
MAX NB OF ASSOCIATED CLIENTS (per AP)
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz)
INTEGRATED ANTENNAS
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)
RF CONNECTORS (RF-SMA)
TPM MODULE
NETWORK INTERFACES
USB HOST INTERFACE
BLE or ZIGBEE
PoE POWERED
PoE PSE
DC POWER SUPPORT
OPERATING TEMP RANGE
ENCLOSURE VOLUME (excluding packing box & accessories)
WEIGHT (excluding packing box & accessories)
RATING
DEEP PACKET INSPECTION
MAX POWER CONSUMPTION (excluding USB, PoE PSE)
SHIPPED WITH MOUNTING KIT

Outdoor Access Points



AP1362	AP1361D	AP1361	AP1251
802.11ax - Wi-Fi 6 Retro-compatible			802.11ac - Wi-Fi 5 Retro-compatible
Outdoor			Outdoor
3 Gbps			1.3 Gbps
4 (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)			2
2.4GHz & 5GHz			2.4GHz & 5GHz
x4 Downlink & Uplink MU-MIMO simultaneous spatial streams			x4 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDMA			OFDM
32			16
1024			512
20dBm/20dBm			20dBm/20dBm
x	✓ Directional	✓ Omni	✓
(ref page 4)	7.5/7.4 dBI	4.85/6.48 dBI	8.46dBi/6.62dBi
6 N-Type	x		x
✓			✓
2.5GE + 1 SFP port + 1GE (IoT)			1GE + 1GE (IoT)
x	✓ USB 2.0 Type C		x
BLE 5.1/Zigbee Integrated			x
802.3bt/at			802.3af (max 15W)
15.4W/30W			x
x			x
-40°C to +65°C			-40°C to +65°C
243mm (W) x 243mm (D) x 85mm (H)			243mm (W) X 243mm (D) X 85mm (H)
2230 g			2230 g
IP67			IP67
✓			✓
70 W			11.8 W
x To be ordered separately			✓

Hospitality and Remote Access Points



AP1201H	AP1301H
802.11ac - Wi-Fi 5 Retro-compatible	802.11ax - Wi-Fi 6 Retro-compatible
Hospitality/Remote access	Hospitality/Remote access
1.2 Gbps	1.77 Gbps
2	3 (incl. 1 BLE/Zigbee radio)
2.4GHz & 5GHz	2.4GHz & 5GHz
x2 Downlink & Uplink MU-MIMO simultaneous spatial streams	x2 Downlink & Uplink MU-MIMO simultaneous spatial streams
OFDM	OFDMA
16	32
256	1024
14dBm/18dBm	18dBm / 18dBm
✓	✓ Omni
4dBi/6.3dBi	3.92dBi / 4.41dBi
x	x
x	x
1GE uplink + 3GE downlink + 1 pair RJ45 passthrough	1GE uplink + 4GE downlink + 1 pair RJ45 passthrough
✓ USB 2.0 Type A	✓ USB 2.0 Type A
✓ BLE via USB dongle	BLE 5.1 /Zigbee Integrated
✓ 802.3af (max 15W)	802.3at/af
✓	✓ 802.3af
48V DC (nominal)	48V DC (nominal)
0°C to 45°C	0°C to 45°C
95mm (W) x 34.45mm (D) x 161.5mm (H)	86 mm (W) x 29 mm (D) x 162.5 mm (H)
239 g	320 g
x N/A	x N/A
x	✓
12 W	12.7 W
✓	✓ Wall mounting kit

	AP1232	AP1231	AP1222	AP1221	AP1201	AP1101
WI-FI STANDARD	802.11ac - Wi-Fi 5 Retro-compatible		802.11ac - Wi-Fi 5 Retro-compatible		802.11ac - Wi-Fi 5 Retro-compatible	
TYPE OF USE	Indoor		Indoor		Indoor	
MAX THROUGHPUT	4.2 Gbps		2.1 Gbps		1.3 Gbps	
NB OF RADIOS	4 (incl. 1 BLE radio)		2		3 (incl. BLE/Zigbee radio)	
SUPPORT BANDS	2.4GHz & 5GHz		2.4GHz & 5GHz		2.4GHz & 5GHz	
RADIO MIMO TYPE	x4 Downlink MU-MIMO simultaneous spatial streams		x4 Downlink MU-MIMO simultaneous spatial streams		x2 Downlink MU-MIMO simultaneous spatial streams	
OFDMA / OFDM	OFDM		OFDM		OFDM	
MAX NB OF SSIDS (per AP)	24		16		32	
MAX NB OF ASSOCIATED CLIENTS (per AP)	768		512		512	
MAX TRANSMIT POWER (per radio chain, MCSO, 2.54GHz/5GHz)	18dBm/18dBm		18dBm/18dBm		18dBm/18dBm	
INTEGRATED ANTENNAS	✗		✗		✓	
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	(ref page 4)		(ref page 4)		4.7dBi/4.6dBi	
RF CONNECTORS (RF-SMA)	8		4		✗	
TPM MODULE	✓		✓		✓	
NETWORK INTERFACES	1GE + 2.5GE		1GE		1GE	
USB HOST INTERFACE	✓USB 2.0 Type A		✓USB 2.0 Type A		✗	
BLE or ZIGBEE	✓BLE		✗		✓BLE / ✓Zigbee	
PoE POWERED	✓ 802.3at (max 60W)		✓ 802.3af (max 15W)		✓ 802.3af (max 15W)	
PoE PSE	✗		✗		✗	
DC POWER SUPPORT	48V DC (nominal)		48V DC (nominal)		48V DC (nominal)	
OPERATING TEMP RANGE	0 to 45°C		0 to 45°C		0 to 45°C	
ENCLOSURE VOLUME (excluding packing box & accessories)	230 mm (W) x 230 mm (D) x 47 mm (H)		180 mm (W) x 180 mm (D) x 36 mm (H)		155 mm (W) x 155 mm (D) x 28 mm (H)	
WEIGHT (excluding packing box & accessories)	1400 g		700 g		310 g	
RATING	UL2043 (plenum rated)		UL2043 (plenum rated)		UL2043 (plenum rated)	
DEEP PACKET INSPECTION	✓		✓		✓	
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	27.6 W		15.6 W		11 W	
SHIPPED WITH MOUNTING KIT	✓		✓		✓	

OmniAccess Stellar Access Point External Antennas Matrix

	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor
ANTENNA MODEL	ANT-O-6	ANT-O-M4-5	ANT-S-M4-60	ANT-S-M4-120	ANT-S-M4-30	ANT-O-M2-5	ANT-O-M4-9	ANT-S-M6-60-9	ANT-O-M6-8
CONFIGURATION	Omni Dual Band	Omni Dual Band	Sector Dual Band	Sector Dual Band	Sector 5GHz Band (37°)	Omni Dual Band	Omni Dual Band	Sector Dual Band (60°)	Omni Dual Band
GAIN	4dBi@2.4GHz 6dBi@5GHz	3.3dBi@2.4GHz 5.5dBi@5GHz	4.5dBi@2.4GHz 6dBi@5GHz	5dBi@2.4GHz 5dBi@5GHz	13dBi@5GHz	5dBi@2.4GHz 8dBi@5GHz	7.5dBi@2.4GHz, 9dBi@5GHz	9dBi±1 dBi@2.4GHz, 9dBi±1dBi@5GHz	6dBi@2.4GHz, 8dBi@5GHz
3DB BEAM-WIDTH	H-Plane: 360°	H-Plane: 360°	H-Plane 60°, E-Plane 60°	H-Plane 120°, E-Plane 70°	H-Plane 37°, E-Plane 37°	Azimuth (Omni), Elevation (35°/25°)	Azimuth (Omni), Elevation (22°/11°)	H-Plane: 65±10°, V-Plane: 35±10°	H-Plane: 360°
POLARIZATION	Linear & Vertical	Linear, Vertical & Horizontal	Linear, Vertical & Horizontal	Double dual Slant ±45°	Vertical, Horizontal & Dual Slant (±45°)	Vertical & Horizontal	Vertical & Horizontal	Vertical & Horizontal	Linear, Vertical & Horizontal
CONNECTOR	RPSMA-J	RPSMA-J	RPSMA-J	RPSMA-J	RPSMA-J	2*N-Type Female	4*N-Type Female	6*N-Type Female	6*N-Type Female
CABLE	Direct attach	RPSMA-J+086	SMA-J/RPSMA-J+086	SMA-J/RPSMA-J	SMA-J/RPSMA-J				
OPERATING TEMPERATURE	-10°C to 60°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C
WORKING WITH AP1222	Direct mount ✓	Typically used in indoor ceiling mount, Omni Wi-Fi coverage. ✓	Typically used in indoor wall mount, 60° directional Wi-Fi coverage. ✓	Typically used in indoor wall mount, 120° directional Wi-Fi coverage. ✓	Typically used in indoor wall mount, 30° directional high-gain coverage. ✓	✗	✗	✗	✗
WORKING WITH AP1232	Direct mount ✓	Typically 1*AP1232+2*ANT-O-M4-5, used in indoor ceiling mount, Omni Wi-Fi coverage. ✓	Typically 1*AP1232+2*ANT-S-M4-60, used in indoor wall mount, 120° directional Wi-Fi coverage. ✓	Typically 1*AP1232+2*ANT-S-M4-120, used in indoor wall mount, 240° directional Wi-Fi coverage. ✓	Typically 1*AP1232+2*ANT-S-M4-30, used in indoor wall mount, 60° directional high-gain coverage. ✓	✗	✗	✗	✗
WORKING WITH AP1322	Direct mount ✓	Typically used in indoor ceiling mount, Omni Wi-Fi coverage. ✓	Typically used in indoor wall mount, 60° directional Wi-Fi coverage. ✓	Typically used in indoor wall mount, 120° directional Wi-Fi coverage. ✓	Typically used in indoor wall mount, 30° directional high-gain coverage. ✓	✗	✗	✗	✗
WORKING WITH AP1362	✗	✗	✗	✗	✗	AP1362 - 2.4GHz 2*2 MIMO Wi-Fi Coverage. ✓	AP1362 - 5GHz 4*4 MIMO Wi-Fi Coverage. ✓	AP1362 - 2.4GHz 2*2 MIMO + 5GHz 4*4 MIMO Wi-Fi Coverage. ✓	AP1362 - 2.4GHz 2*2 MIMO + 5GHz 4*4 MIMO Wi-Fi Coverage. ✓

OmniAccess Stellar

Based on Alcatel-Lucent Enterprise distributed WLAN control architecture

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

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

Distributed architecture from ALE 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.**