OmniAccess Stellar Product Line Matrix

WLAN product & antenna comparison guide

Alcatel·Lucent
Enterprise

WLAN product & antenna comparison guide

Alcatel·Lucent Enterprise

	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, 2.4 GHz / 5 GHz / 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 / 5 GHz)	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 & acccessories)	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

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Outdoor Access Points

	AP1362	AP1361D	AP1361	AP1251
WI-FI STANDARD	**802.11ax - Wi-Fi 6** Retro-compatible			**802.11ac - Wi-Fi 5** Retro-compatible
TYPE OF USE	Outdoor			Outdoor
MAX THROUGHPUT	**3 Gbps**			**1.3 Gbps**
NB OF RADIOS	**4** (incl. 1 for dedicated scanning & 1 BLE/Zigbee radio)			**2**
SUPPORT BANDS	2.4GHz & 5GHz			2.4GHz & 5GHz
RADIO MIMO TYPE	x4 **Downlink & Uplink MU-MIMO** simultaneous spatial streams			x4 **Downlink & Uplink MU-MIMO** simultaneous spatial streams
OFDMA / OFDM	**OFDMA**			**OFDM**
MAX NB OF SSIDs (per AP)	**32**			**16**
MAX NB OF ASSOCIATED CLIENTS (per AP)	**1024**			**512**
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz)	20dBm/20dBm			20dBm/20dBm
INTEGRATED ANTENNAS	✖	✔ **Directional**	✔ **Omni**	✔
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	(ref page 4)	7.5/ 7.4 dBI	4.85/ 6.48 dBI	8.46dBi / 6.62dBi
RF CONNECTORS (RF-SMA)	6 N-Type	✖		✖
TPM MODULE	✔			✔
NETWORK INTERFACES	2.5GE + 1 SFP port + 1GE (IoT)			1GE + 1GE (IoT)
USB HOST INTERFACE	✖	✔ USB 2.0 Type C		✖
BLE or ZIGBEE	**BLE 5.1/Zigbee Integrated**			✖
PoE POWERED	802.3bt/at			802.3af (max **15W**)
PoE PSE	15.4W/30W			✖
DC POWER SUPPORT	✖			✖
OPERATING TEMP RANGE	-40°C to +65°C			-40°C to +65°C
ENCLOSURE VOLUME (excluding packing box & accessories)	243mm (W) x 243mm (D) x 85mm (H)			243mm (W) x 243mm (D) x 85mm (H)
WEIGHT (excluding packing box & acccessories)	2230 g			2230 g
RATING	IP67			IP67
DEEP PACKET INSPECTION	✔			✔
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	**70 W**			**11.8 W**
SHIPPED WITH MOUNTING KIT	✖ To be ordered separately			✔

Hospitality and Remote Access Points

	AP1201H	AP1301H
WI-FI STANDARD	**802.11ac - Wi-Fi 5** Retro-compatible	**802.11ax - Wi-Fi 6** Retro-compatible
TYPE OF USE	Hospitality/Remote access	Hospitality/Remote access
MAX THROUGHPUT	**1.2 Gbps**	**1.77 Gbps**
NB OF RADIOS	**2**	**3** (incl. 1 BLE/Zigbee radio)
SUPPORT BANDS	2.4GHz & 5GHz	2.4GHz & 5GHz
RADIO MIMO TYPE	x2 **Downlink & Uplink MU-MIMO** simultaneous spatial streams	x2 **Downlink & Uplink MU-MIMO** simultaneous spatial streams
OFDMA / OFDM	**OFDM**	**OFDMA**
MAX NB OF SSIDs (per AP)	**16**	**32**
MAX NB OF ASSOCIATED CLIENTS (per AP)	**256**	**1024**
MAX TRANSMIT POWER (per radio chain, MCSO, 2.4GHz/5GHz)	14dBm/18dBm	18dBm / 18dBm
INTEGRATED ANTENNAS	✔	✔ **Omni**
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	4dBi / 6.3dBi	3.92dBi / 4.41dBi
RF CONNECTORS (RF-SMA)	✖	✖
TPM MODULE	✖	✖
NETWORK INTERFACES	1GE uplink + 3GE downlink + 1pair RJ45 passthrough	1GE uplink + 4GE downlink + 1pair RJ45 passthrough
USB HOST INTERFACE	✔ USB 2.0 Type A	✔ USB 2.0 Type A
BLE or ZIGBEE	✔ BLE via USB dongle	**BLE 5.1 /Zigbee Integrated**
PoE POWERED	✔ 802.3af (max **15W**)	802.3at/af
PoE PSE	✔	✔ 802.3af
DC POWER SUPPORT	48V DC (nominal)	48V DC (nominal)
OPERATING TEMP RANGE	0°C to 45°C	0°C to 45°C
ENCLOSURE VOLUME (excluding packing box & accessories)	95mm (W) x 34.45mm (D) x 161.5mm (H)	86 mm (W) x 29 mm (D) x 162.5 mm (H)
WEIGHT (excluding packing box & acccessories)	239 g	320 g
RATING	✖ N/A	✖ N/A
DEEP PACKET INSPECTION	✖	✔
MAX POWER CONSUMPTION (excluding USB, PoE PSE)	**12 W**	**12.7 W**
SHIPPED WITH MOUNTING KIT	✔	✔ Wall mounting kit

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	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	**802.11ac - Wi-Fi 5** Retro-compatible
TYPE OF USE	**Indoor**		**Indoor**		**Indoor**	**Indoor**
MAX THROUGHPUT	**4.2 Gbps**		**2.1 Gbps**		**1.3 Gbps**	**1.2 Gbps**
NB OF RADIOS	**4** (incl. 1 BLE radio)		**2**		**3** (incl. BLE/Zigbee radio)	**2**
SUPPORT BANDS	2.4GHz & 5GHz		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**	**SU-MIMO**
OFDMA / OFDM	**OFDM**		**OFDM**		**OFDM**	**OFDM**
MAX NB OF SSIDs (per AP)	**24**		**16**		**32**	**16**
MAX NB OF ASSOCIATED CLIENTS (per AP)	**768**		**512**		**512**	**256**
MAX TRANSMIT POWER (per radio chain, MCSO, 2.54GHz/5GHz)	18dBm/18dBm		18dBm/18dBm		18dBm/18dBm	17dBm/20dBm
INTEGRATED ANTENNAS	✖	✔	✖	✔	✔	✔
ANTENNA PEAK GAIN (2.4 GHz / 5GHz)	(ref page 4)	4.38dBi/4.47dBi	(ref page 4)	3.61dBi/4.45dBi	4.7dBi/4.6dBi	3.43dBi/2.56dBi
RF CONNECTORS (RF-SMA)	8	✖	4	✖	✖	✖
TPM MODULE	✔		✔		✔	✖
NETWORK INTERFACES	1GE + 2.5GE		1GE		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**)	802.3af (max **15W**)
PoE PSE	✖		✖		✖	✖
DC POWER SUPPORT	48V DC (nominal)		48V DC (nominal)		48V DC (nominal)	48V DC (nominal)
OPERATING TEMP RANGE	0 to 45°C		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)	155 mm (W) x 155 mm (D) x 28 mm (H)
WEIGHT (excluding packing box & acccessories)	1400 g		700 g		310 g	270 g
RATING	UL2043 (plenum rated)		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**	**10 W**
SHIPPED WITH MOUNTING KIT	✔		✔		✔	✔

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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±1dBi@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.

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