



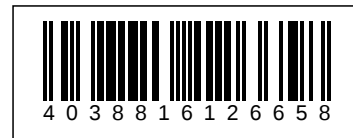
Part No.: 211734
Vendor Part No.: ALL-WAPC0522AX-3000

ALLNET Apollo Wireless AP WIFI6 • AX3000 • 2x2 • Indoor • 2.5 GbE • ALL-WAPC0522AX-3000 • Apollo

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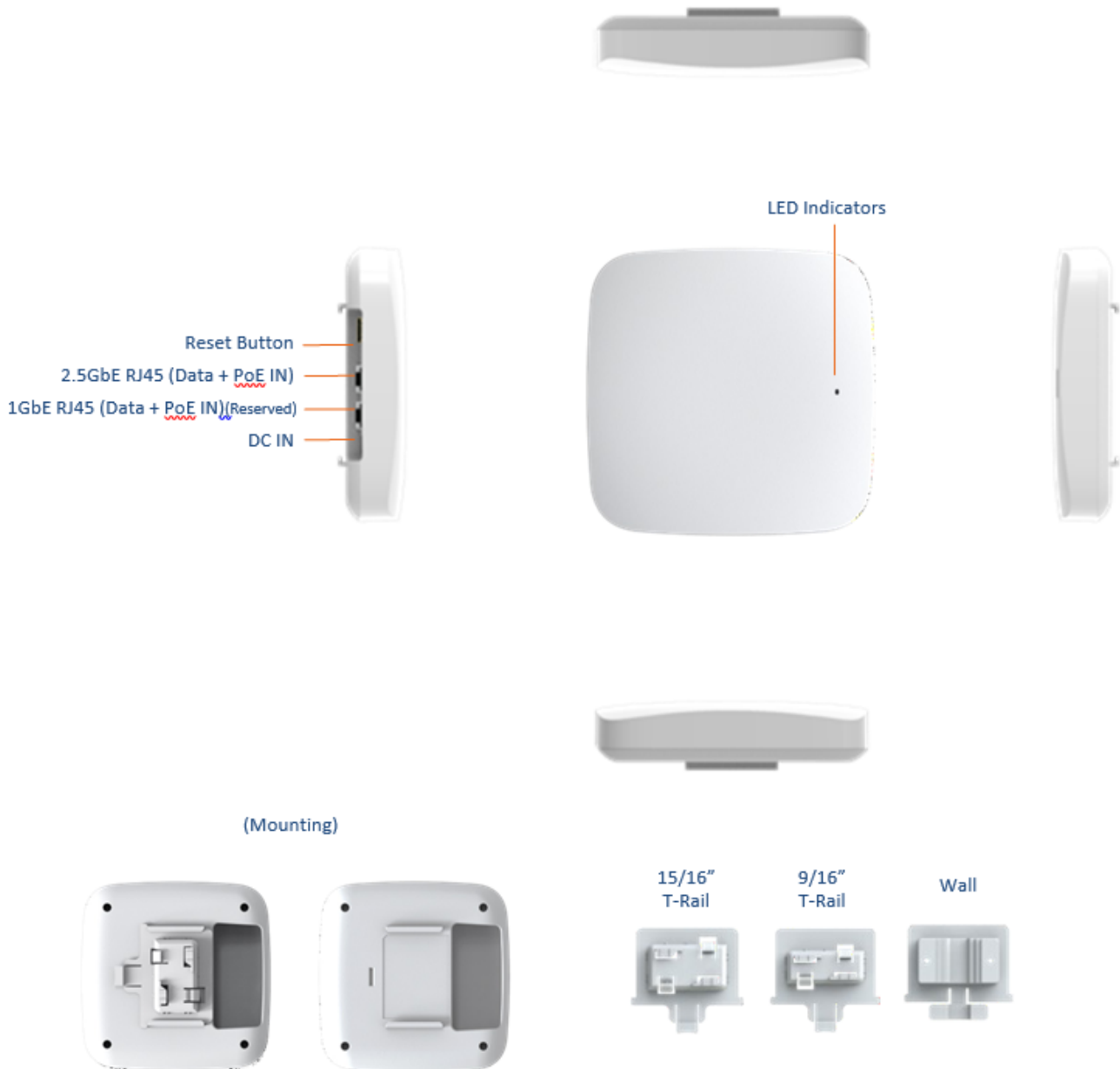
Highlights:

- Dual concurrent 802.11ax architecture & backward-compatible with 11ac/a/b/g/n client devices
- WPA3 & WPA2-AES authentication support
- 5 dBi integrated 2x2 antenna
- Supports up to 2,400 Mbps in the 5GHz frequency band & 574 Mbps in the 2.4GHz frequency band
- Support 5GHz DFS channels
- Local and remote management over FitController controller without fees
- 2,5 GBit 802.3af PoE port for easy placement up to 328 feet from a power source
- Choice of AP and WDS modes to meet your management & deployment requirements.
- **Operation as SINGLE AP or with on-prem controller ALL-AC100.**

ALLNET Apollo Series ALL-WAPC0522AX-3000 2x2 Lite Managed Indoor Wireless Access Point offers advanced 802.11ax technology, granting users incredibly speedy and efficient performance with a maximum theoretical speed of 574 Mbps on the 2.4GHz frequency and an incredible 2,400Mbps on 5GHz frequency! Furthermore it's safeguarded by top-tier WPA3/WPA2PSK AES encryption protocols for unparalleled security. security.

Physical Interfaces:

Physical Interfaces



Technical Details Basics:

Basic	ALL-WAPC0522AX-3000 Apollo Entry 2x2 Entry AP	
Main Chipset	IPQ5018	
	ARM A53, 1GHz Dual-	



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	Core
Flash	8MB SPI NOR (reserved) 128MB NAND
RAM	512MB DDR3
Transmit Power	2.4GHz: 21dBm
(Chain + Combining Gain)	5GHz: 21dBm
Interface	1x 10/100/1000/2500Mbps RJ45 Port IEEE802.3at PoE IN 1x Reset Button 1x DC Barrel Jack
Operating Temperature	0 ~ 40°C
Dimensions (W x L x H)	160 x 160 x 30mm
Enclosure Material	Plastic (Top Cover) Metal (Bottom Cover)
Certification (Generic)	FCC, CE

Fully Technical Details:

Fully	ALL-WAPC0522AX-3000 Apollo Entry 2x2 Entry AP
Wireless Radio Specification	
Access Point Type	Indoor, dual radios concurrent, 5GHz 802.11 ax 2x2 MU-MIMO is backwards compatible with 802.11 ax/ ac/a/n mode, 2.4GHz 802.11 ax 2x2 MU-MIMO is backwards compatible with 802.11 b/g/n/ac
Frequency Radio	2.4GHz: 2400MHz ~ 2495MHz, 5GHz: 5150MHz~5250MHz, 5250MHz~5350MHz, 5470~5725MHz, 5725MHz~5850MHz Support radios and channels will be varied on the configured regulatory domain.
Supported Radio Technology	802.11ax: Orthogonal Frequency Division Multiple Access(OFDMA) 802.11b: Direct-sequence spread- spectrum (DSSS) 802.11ac/a/g/n: Orthogonal Frequency Division Multiple (OFDM)



	802.11ax supports very high throughput (VHT)—HE 20/40/80/160 MHz 802.11ac supports very high throughput (VHT)—VHT 20/40/80 MHz 802.11n supports high throughput(HT) —HT 20/40 MHz 802.11n supports very high throughput under the 2.4GHz radio –VHT40 MHz (256-QAM) 802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU
Supported Modulation Type	802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Transmit Power (Combined)	2.4GHz: 21dBm; 5GHz: 21dBm Maximum power is limited by regulatory domain
MU-MIMO	MU-MIMO allows multiple spatial streamsto be allocated to different clients simultaneously on both download and upload sides.
Tx Beamforming (TxBF)	Increasing signal reliability and transmitting distance.
Power	
Maximum Power Consumption (TBD,estimated)	17.4W
PowerSource	Standard IEEE802.3at DC IN 12V/2A
Antenna	
Internal Antenna	2.4GHz:4dBi 5GHz:5dBi BLE2.4GHz:4.5dBi (reserved)
Interfaces	
Networking Interface	One 10/100/1000/2500 Mbps Ethernet Port One 10/100/1000 Mbps Ethernet Ports (reserved)
Reset Button	One(1) Reset Button (Convert Access Point to the Factory default or the Users Default)
DCIN	One(1) 12V DC IN



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Mounting	
Ceiling or Wall Mounting	Mount Access Point in on the ceiling or wall via included accessories
Mechanical & Environment	
Dimensions (LxWxH)	160mmx160mmx30mm
Operating	Temperature: 0°C~40°C Humidity:0%~90% typical
Storage	Temperature: -20°C~70°C Humidity:0%~90% typical
Marks	FCC Subpart15 B Subpart C 15.247 Subpart E 15.407 CE EN 300 328 EN 301 893 EN 50385 EN 55032 EN 55024

RF Performance Specification Wireless Indoor Access Point

Channel	Data Rate	Transmit Power (Typical AVG.)				Receive Sensitivity	
		Tolerance = +/-1.5 dB					
		2.4GHz		5GHz		2.4GHz	5GHz
		Combine	EIRP	Combine	EIRP		
802.11b	1M	21	25	-	-	-95	-
	11M	21	25	-	-	-88	-
802.11g/a	6M	21	25	21	26	-92	-92
	54M	18	22	18	23	-74	-73
802.11n HT20	MCS0	21	25	21	26	-92	-92
	MCS7	18	22	18	23	-74	-72
802.11n HT40	MCS0	21	25	21	26	-91	-89
	MCS7	18	22	18	23	-72	-64
802.11ac VHT20	MCS0	21	25	21	26	-92	-92
	MCS8	17	21	17	22	-67	-67
802.11ac VHT40	MCS0	21	25	21	26	-91	-89
	MCS9	17	21	17	22	-66	-64
802.11ac VHT80	MCS0	-	-	20	25	-	-86
	MCS9	-	-	17	22	-	-61
802.11ac VHT160	MCS0	-	-	20	25	-	-83



	MCS11	-	-	16	21	-	-59
802.11ax HE20	MCS0	21	25	21	26	-92	-92
	MCS11	16	20	16	21	-62	-61
802.11ax HE40	MCS0	21	25	21	26	-90	-89
	MCS11	16	20	16	21	-59	-58
802.11ax HE80	MCS0	-	-	20	25	-	-86
	MCS11	-	-	16	21	-	-56
802.11ax HE160	MCS0	-	-	20	25	-	-83
	MCS11	-	-	15	20	-	-53

Accessories

Part No.	Name
186548	ALLNET PoE Injector Gigabit PoE & PoE+ (15,4W/30W) / plastic
211736	ALLNET Apollo Wireless AP WIFI6 • AX5400 • 2x2:2; 4x4:4 • Indoor • 2.5 GbE • ALL-WAPC0544AX-5400 • Apollo
211739	ALLNET Apollo Wireless AP WIFI6 • AX3000 • 2x2 • Outdoor IP67 • 2.5 GbE • ALL-WAPC0522AXO-3000 • Apollo
175246	ALLNET PoE Injector Gigabit ALL0489V4 2,5Gbit - 802.3af/at H
205738	ALLNET Switch industrial unmanaged Layer2 3 Port 2.5 GbE • PoE Budget 90W • 1x PoE bt • 2x SFP 1G/2.5G • Fanless • DIN • IP40 • ALL-SGI8003P-2.5G
201875	ALLNET Switch unmanaged 5 Port 2.5Gbit • 5x PoE • 1x LAN • Fanless • "ALL-SG8005P-2.5G"
221097	ALLNET Apollo full managed Layer2+ 10Port • 8x 2.5GB • PoE Budget 240W • 8x PoE at • 2x SFP+ • Apollo • ALL-SGC5410PM-10G