ALLNET Apollo Wireless AP WIFI6 • AX5400 • 2x2:2; 4x4:4 • Indoor • 2.5 GbE • ALL-WAPC0544AX-5400 • Apollo

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Highlights:

- Dual concurrent 802.11ax architecture and backward compatibility with 11ac/a/b/g/n client devices
- Support for WPA3 and WPA2-AES authentication
- 5 dBi integrated 2x2 antenna
- Supports up to 2,400 Mbps in the 5GHz frequency band and 574 Mbps in the 2.4GHz frequency band
- Supports 5GHz DFS channels
- Local and remote management via FitController controller without fees
- 1GB 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 and deployment needs.

ALLNET Apollo Series ALL-WAPC0544AX-5400 is an advanced WiFi 6 Access Point, which deepens and extends the capabilities of WiFi for use in high-capacity environments. The Enterprise level feature packed hardware can be offered in a slim and low profile enclosure while also achieving optimal thermal heat dissipation to run more efficiently and consume less power for maximum 4x4 spatial streams with 4804 Mbps in 5GHz frequency band and 573 Mbps in 2.4GHz frequency band.

Physical Interfaces:

Technical Details Basics:

Basic	**ALL-WAPC0522AX-5400 Apollo Pro 2x2:2; 4x4:4**
Main Chipset	IPQ5018 ARM A53, 1GHz Dual-Core
Flash	8MB SPI NOR (reserved) 128MB NAND
RAM	512MB DDR3
Transmit Power (Combined)	IPQ5018@2.4GHz: 21dBm
	QCN6024@5GHz: 27dBm

Bluetooth	BLE 5.0 (reserved), IPQ5018 integrated
Interface	1x 10/100/1000/2500Mbps RJ45 Port 1x Reset Button 1x DC Barrel Jack
Operating Temperature	0 ~ 40°C
Dimensions (W x L x H)	160 x 160 x 30mm

Fully Technical Details:

Fully	**ALL-WAPC0522AX-5400 Apollo Pro 2x2:2; 4x4:4**
Wireless Radio Specification	
Access Point Type	Indoor, dual radios concurrent, 5GHz 802.11 ax 4x4 MU MU-MIMO is backwards compatible with 802.11 ax/ ac/a/n mode, 2.4GHz 802.11 ax 2x2 MU 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 Direct-sequence spread 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 (256 256-QAM) 802.11n/ac/ax packet aggregation: A A-MPDU, A 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: 27dBm 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)	18W
PowerSource	Standard IEEE802.3at DC IN 12V/2A
Antenna	
Internal Antenna	2.4GHz:4dBi 5GHz:5dBi
Interfaces	
Networking Interface	One 10/100/1000/2500 Mbps Ethernet Port
Reset Button	One(1) Reset Button (Convert Access Point to the Factory default or the Users Default)
DCIN	One(1) 12V DC IN
Mounting	
Ceiling or Wall Mounting	Mount Access Point in on the ceiling or wall via included accessories
Mechanical & Environment	
Dimensions (LxWxH)	160mmx160mmx30mm
Weight	430G
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

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RF Performance Specification Wireless Indoor Access Point

Channel	**Data Rate**	**Transmit Power (Typical AVG.)** **Tolerance = +/-1.5 dBm**				**Receive Sensitivity (Per-chain)**	
		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	27	32	-91	-88
	54M	18	22	25	30	-75	-71
802.11n HT20	MCS0	21	25	27	32	-92	-88
	MCS7	18	22	25	30	-74	-71
802.11n HT40	MCS0	21	25	27	32	-89	-86
	MCS7	18	22	25	30	-71	-68
802.11ac VHT20	MCS0	21	25	27	32	-92	-88
	MCS8	17	21	24	29	-70	-66
802.11ac VHT40	MCS0	21	25	27	32	-89	-86
	MCS9	17	21	23	28	-67	-63
802.11ac VHT80	MCS0	-	-	27	32	-	-81
	MCS9	-	-	23	28	-	-59
802.11ac VHT160	MCS0	-	-	27	32	-	-80
	MCS11	-	-	22	27	-	-53
802.11ax HE20	MCS0	21	25	27	32	-92	-88
	MCS11	16	20	21	26	-63	-59
802.11ax HE40	MCS0	21	25	27	32	-89	-86
	MCS11	16	20	21	26	-61	-57
802.11ax HE80	MCS0	-	-	27	32	-	-81
	MCS11	-	-	21	26	-	-52
802.11ax HE160	MCS0	-	-	27	32	-	-80
	MCS11	-	-	21	26	-	-52

Accessories

Part No.	Name
211733	ALLNET Apollo On-Prem Hardware Controller / Management & Provisioning of AP's and Switches Apollo Series "ALL-AC100"
211734	ALLNET Apollo Wireless AP WIFI6 • AX3000 • 2x2 • Indoor • 2.5 GbE • ALL-WAPC0522AX-3000 • Apollo

ALLNET GmbH - Maistraße 2 - 82110 Germering - sales@allnet.de - 089 / 894 222 22

Part No.	Name
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 unmanaged industrial 3 Port 2,5Gigabit 90W / 1
201875	ALLNET Switch unmanaged 5 Port 2.5GBit • 5x PoE • 1x LAN • Fanless • "ALL-SG8005P-2.5G"

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