



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:

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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 (Chain + Combining Gain) | 2.4GHz: 21dBm 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) |



| | |
|--|---|
| | <p>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</p> <p>802.11n supports very high throughput under the 2.4GHz radio –VHT40 MHz (256-QAM)</p> <p>802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU</p> |
| Supported Modulation Type | <p>802.11b: BPSK, QPSK, CCK</p> <p>802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM</p> <p>802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</p> <p>802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM</p> |
| Transmit Power (Combined) | <p>2.4GHz: 21dBm; 5GHz: 21dBm</p> <p>Maximum power is limited by regulatory domain</p> |
| MU-MIMO | <p>MU-MIMO allows multiple spatial streamsto be allocated to different</p> <p>clients simultaneously on both download and upload sides.</p> |
| 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 | <p>2.4GHz:4dBi</p> <p>5GHz:5dBi</p> <p>BLE2.4GHz:4.5dBi (reserved)</p> |
| Interfaces | |
| Networking Interface | <p>One 10/100/1000/2500 Mbps Ethernet Port</p> <p>One 10/100/1000 Mbps Ethernet Ports (reserved)</p> |
| Reset Button | <p>One(1) Reset Button</p> <p>(Convert Access Point to the Factory default or the Users Default)</p> |
| 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" |