

Wireless Access Point 802.11ax, WiFi 6



- WLAN IEEE 802.11ax WiFi 6
- 2.4 GHz up to 600 MBit/s
- 5 GHz up to 1200 MBit/s
- Multi-user MIMO
- WiFi roaming according to IEEE 802.11k,v,r
- WPA3 security
- 1x 1000Base-T LAN, PoE 802.3at
- Protection class IP 67

<https://www.wachendorff-prozesstechnik.de/en/WLANAPOD>

Description

Ultra-high-speed Wi-Fi 6 wireless LAN solution with environmentally friendly design

The WLAN Accesspoint 1800 Outdoor Industrial Dual Band 802.11ax is designed for industrial outdoor operation with a 10/100/1000T LAN port and a robust IP67 metal housing. The WLAN access point supports MU-MIMO, OFDMA, seamless roaming, beamforming and BSS coloring technology and offers a maximum wireless speed of 1200Mbps in the 5GHz band and 600Mbps in the 2.4GHz band. The maximum number of client users is up to 150 and, with the introduction of Wi-Fi 6 technology, ensures more secure and robust connectivity. As the WLAN access point can operate in a wide temperature range from -40 to 70 degrees Celsius, it can be used in almost any challenging environment. The WLAN access point is supplied with a pole mount.

Super Power Dual Band WLAN solution

The WLAN access point, which uses the IEEE 802.11ax Wi-Fi 6 standard, offers high-speed transmission. The maximum wireless speed in the 2.4 GHz band is up to 600 Mbps and up to 1200 Mbps in the 5 GHz band. Both the 2.4 GHz and 5 GHz wireless connections can be used simultaneously.

Advantages of MU-MIMO, OFDMA, seamless roaming, beamforming and BSS coloring

The WLAN access point can be installed in public areas such as hotspots, airports and conference rooms, as OFDMA, a multi-user variant of OFDM, enables the AP to communicate with several clients simultaneously (uplink and downlink) by assigning subsets of subcarriers (subcarriers), so-called resource units (RUs), to the individual clients. Using MU-MIMO and seamless roaming technologies provides a better Wi-Fi user experience and reduces the likelihood of users turning off Wi-Fi and putting more strain on the cellular network. Beamforming improves the Wi-Fi signal when you are far away from your router. The BSS color is a numeric identifier for the BSS. 802.11ax radios are able to use the BSS color identifier to distinguish between BSSs when other radios are transmitting on the same channel. These technologies can also solve Wi-Fi congestion issues in open workspaces and conference rooms. The Wi-Fi access point offers higher throughput and the best coverage for up to 150 client users.

WPA3 Next Generation Security for your WLAN solution

WPA3 is the next generation of Wi-Fi security technology, offering the most advanced security protocol on the market. WPA3 makes your connection more secure by preventing hackers from cracking your password, no matter how easy it is. WPA3 also provides more reliable password-based authentication, so that the security of individual users can be better protected.

Product details

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| Ethernet: | 1x 10/100/1000BASE-T RJ-45 socket LAN port, auto-negotiation, auto MDI/MDI-X. IEEE208.1Q VLAN SSID to VLAN mapping with up to 4 SSID*s |
| Network security: | TLS 1.1, TLS 1.2, TLS 1.3, SNMPV3 |
| WLAN: | IEEE 802-11b/g/n/a/ac/ax 2.4 GHz Data rate at 2.4 GHz: up to 600 Mbps Data rate at 5 GHz: up to 1200 Mbps Possible channel widths: 20 MHz, 40 MHz, 80 MHz Combined operation: 2.4 GHz and 5 GHz possible Number of SSIDs: 8 (4x 2.4 GHz, 4x 5 GHz) Number of wireless clients: 150 (100 recommended) Wireless roaming: IEEE 802.11k, 802.11v, 802.11r |
| Operating modes: | Access point, gateway, repeater |
| Wireless security: | WPA2/WPA3 Personal (AES, TKIP, TKIP+AES) WPA/WPA2 Personal (AES, TKIP, TKIP+AES) WPA2 Enterprise WPA/WPA2 Enterprise Enable/Disable SSID Broadcast Wireless MAC address filtering |
| Configuration: | Web interface SNMP v1, v2c Smart Discovery Utility NMS controller |
| Power supply: | 48 VDC, 0.5 A, IEEE 802.3at PoE+ |
| Ambient conditions: | Operating temperature: -40 °C to +70 °C Storage temperature: -40 °C to +70 °C Relative humidity 5 to 95%rH (non-condensing) |
| Protection class: | IP67 |
| Dimensions (WxHxD): | 231 mm x 295 mm x 80 mm |
| Mounting type: | Mast mounting |
| Weight: | 2500 g |
| Scope of delivery: | Device Installation instructions |
| Manufacturer: | PLANET Technology Corporation |

Products Order no.

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| WLANAP1800-OD | Wireless Access Point 802.11ax, WiFi 6 |
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Accessories Order no.

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| WLANAP-OD-ANT | Antenna set, 2.4GHz 4.5dBi / 5GHz 7dBi dual-band omnidirectional antennas N-Type male, 2 pieces |
| CPNLRJ45 | RJ45 to RJ45 panel connector / panel front IP 68 |
| KABETH10 | Patch cable, RJ45 UTP CCA, CAT5e white, 0.3 m |
| KABETH11 | Patch cable, RJ45 UTP CCA, CAT5e white, 1 m |
| KABETH12 | Patch cable, RJ45 UTP CCA, CAT5e white, 2 m |



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