AP6-PRO OUTDOOR | DATASHEET

ALTA LABS



ELEVATE YOUR OUTDOOR WIFI

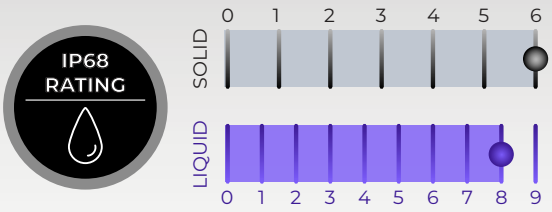
The AP6-Pro Outdoor is an omnidirectional WiFi 6 access point, providing coverage in all directions. The front design is similar to our elegant indoor access points but the back features a built-in pole mount. A wall-mount adapter is also included for easy installation on an exterior wall. The AP6-Pro Outdoor is powered over Ethernet for simple, clean installation. The AP works with the Alta Management platform and the Alta Networks mobile app for easy management and configuration from anywhere in the world.

FEATURES

- IP68 for Optimal Weatherproof Protection
- WiFi 6 With WiFi 7 Benefits
- Superior Range and Performance
- Omnidirectional + Mesh Connectivity
- AltaPass™ Multi-Password Technology
- Scalable Alta Management Platform
- Alta Networks Mobile App
- Advanced Filtering - DPI Engine
- Hotspot Functionality
- On-The-Fly Changes and Scanning
- Wireless Network Color Coding
- Continuous SSID Broadcasting
- Customizable Dashboard
- Mounting Flexibility

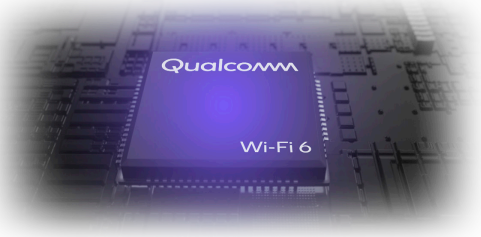
IP68 Rated for Optimal Weather Protection

The AP6-Pro Outdoor is IP68 rated, offering maximum protection against the environment. You can rest assured that your AP6-Pro Outdoor Access Points are able to withstand exposure to year-round weather conditions. Designed to withstand harsh environments with an operating temperature of -40 to 70° C (-40 to 158° F).



WiFi 6 with WiFi 7 Benefits

Built on an innovative new dual-band, 6 stream, WiFi 6 networking platform from Qualcomm®, the AP6-Pro Outdoor incorporates 4096 QAM, one of the primary features of WiFi 7, providing a combined 6.3 Gbps of WiFi capacity.



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Superior Range and Performance

Our proprietary antenna design provides superior range and performance. The AP6-Pro Outdoor features four 5 GHz antennas, a design that helps the AP6-Pro Outdoor outperform 2x2 APs by an over 30% throughput increase in many cases. Seamless roaming is fully automatic with support for the 802.11 k, v, and r standards. The AP6-Pro Outdoor utilizes intelligent mesh formation for maximum throughput.



Omnidirectional + Mesh Connectivity

The AP6-Pro Outdoor features an omnidirectional antenna, allowing WiFi connectivity in all directions. By incorporating Mesh technology, the AP6-Pro Outdoor can be used to extend your WiFi network to areas that may be difficult or unreachable with wired Ethernet.



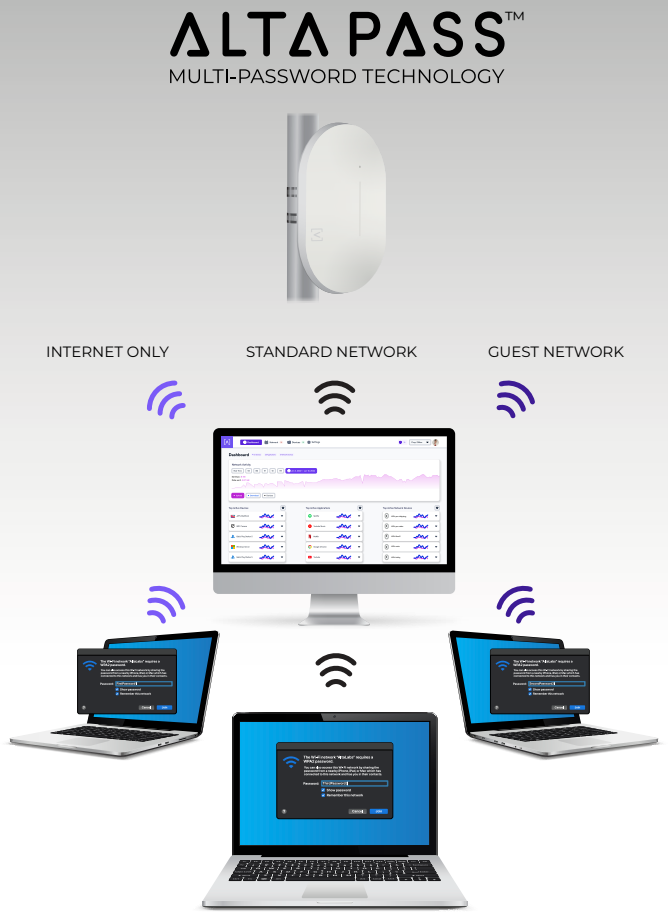


AltaPass™ Multi-Password Technology

AltaPass™ is Alta Labs' patented technology (US Patent No. 12771607) built into all Alta Labs access points. It allows clients to connect to the same wireless network SSID using different passwords. Clients are provided with different network and internet access levels based on the password they use to connect to the network.

When a password is created, select from one of the predefined standard use cases. The password can then also be associated with a specific upload or download rate, a VLAN, or set to bypass the filtering rules, the hotspot functionality, or to ignore the schedule.

- **Standard/Small** Typical network with less than 100 WiFi clients/devices
- **Large** Optimized for hundreds to thousands of WiFi clients/devices
- **IoT** Restricted to Internet and local incoming connections only
- **Internet only** Restricted to Internet only
- **Guest** Restricted to Internet and IoT devices



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Scalable Alta Management Platform

Alta Labs provides an intuitive and easy-to-use management interface for Alta Labs access points and switches. Deploy and manage multiple sites quickly and easily. Add, delete, or rename sites instantly. Toggle between sites from a site selection drop-down. Each site contains its own data set.

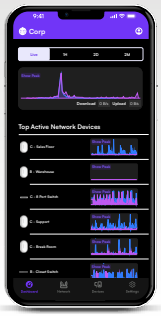
The Alta cloud-based platform is designed for optimum scalability using a high-availability architecture for the ultimate in convenience and worldwide accessibility. Built on a worldwide content delivery network to optimize response and latency, our global cloud infrastructure ensures geographically optimized connectivity through our redundant network.

CONTROL™

Listening to customer feedback, Alta Labs prioritized a self-hosted, on-premise software controller solution that is available now. Docker and LXD images are available for download. The interface is identical to our cloud software with an intuitive and easy-to-use interface. In the very near future, a hardware version of the local controller will be available.

Alta Networks Mobile App

Monitor and manage your networks from the convenience of your mobile device using the Alta Networks app. Sign up for an Alta Labs account using just your name, email, and password or sign in using your Google or Apple account. The Alta Networks app is available in the Apple App Store and the Google Play Store. Scan the QR code below to download the app.



Download



Advanced Filtering - DPI Engine

The Alta Labs access points have a powerful built-in Deep Packet Inspection (DPI) engine. By incorporating this feature directly in the access points, there is no need to purchase additional hardware to take advantage of this powerful tool.

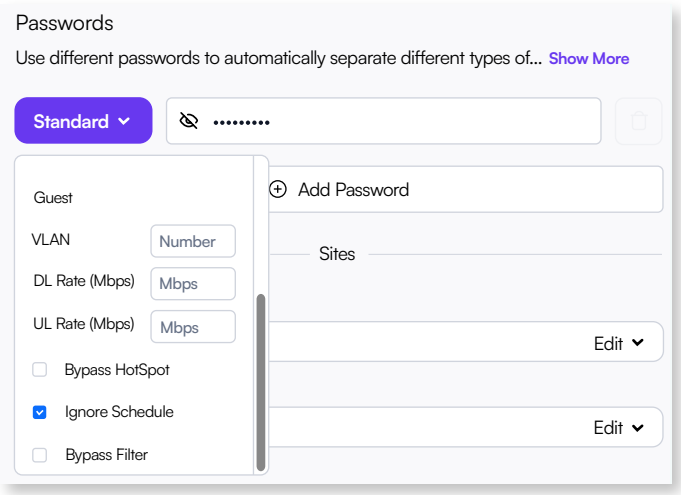
Restrict access to websites, applications, or application types. Filter settings are easily applied in the Alta Labs web management interface.

Select applications or application types in the Block Applications drop-down menu. Block websites by typing in their domain names in the Block Domains field.



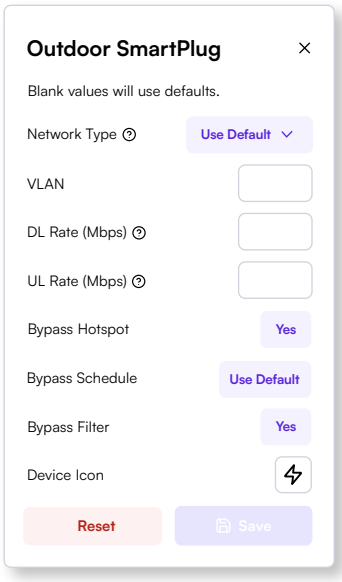
Password-Based Exceptions

There are many scenarios where users can't have or don't need their content filtered. The Alta Labs management interface allows you to bypass the site filter policy using our Multi-Password Authentication technology. Define a password to provide to users that bypasses the defined filter rules. If a hotspot has been created, it can also be bypassed. If a schedule has been defined, it can be ignored. Multiple password options can be defined using various combinations of the options.



Device Specific Exceptions

For instances where specific devices should not have their content filtered, adhere to a schedule, or bypass a hotspot, admins can allow individual devices to bypass the filter, schedule, and/or hotspot settings.



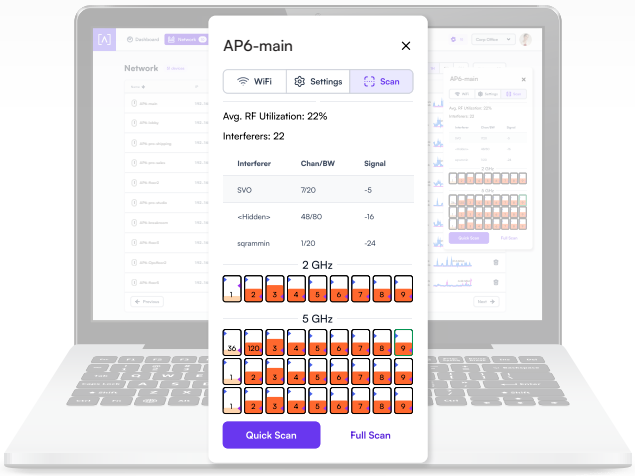
Hotspot Functionality

Built-in functionality to create your own local hotspot with a logo, title page, terms of service, and a final landing page. You also have the option to redirect to an external URL.



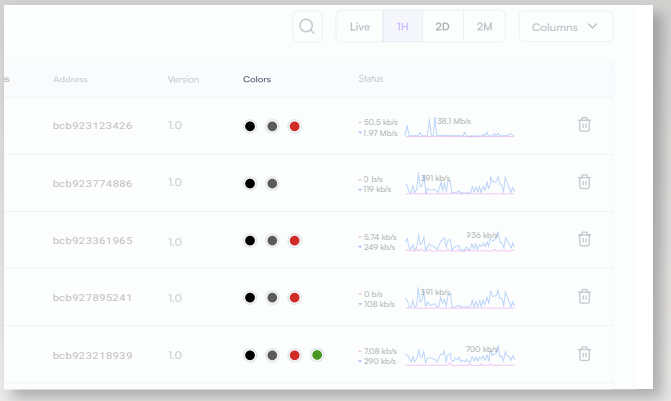
On-The-Fly Changes and Scanning

- Configuration changes do not require a reboot of your network. Changes can be made without taking your network down.
- Scan your AP environment without disrupting your WiFi network.



Wireless Network Color Coding

Patent pending functionality that allows you to assign groups to wireless SSIDs and then assign membership to wireless access points.

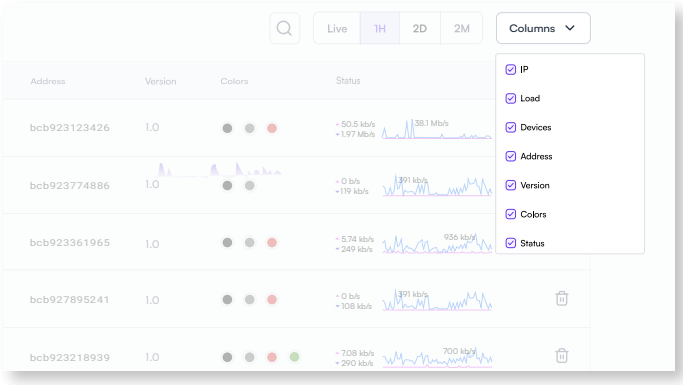


Continuous SSID Broadcasting

In addition to standard functionality such as hiding your SSID, you can continue broadcasting your SSID during a “scheduled off” event. This provides network admins with the ability to grant users additional time on the network. A user can request access via a captive portal displayed when they try to access the network.

Customizable Dashboard

Customize your dashboard with the information you want to see: IP address, Load, number of devices, MAC address, firmware version, wireless network color assignment, and real-time status details. Details are sortable by column.

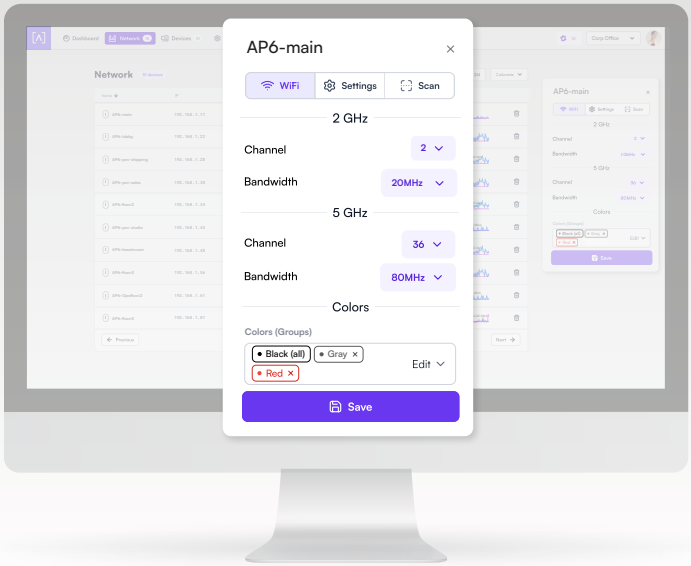


Status Snapshots

View upload and download throughput with a visual timeline on the dashboard for each AP displayed along with the number of connected devices, average processor load, channel load, and average connected devices. Select a snapshot of the last minute, last hour, last two days, or last two months.

Device Cards

Easily view connection details and configure your access points or client connections by clicking the device icon.



Mounting Flexibility

The AP6-Pro Outdoor has a pole mount built-in and also includes a wall mount accessory.





SPECIFICATIONS

MECHANICAL	
Dimensions	210 x 150 x 90 mm (8.3 x 5.9 x 3.5")
Weight	0.9 kg (1.9 lbs)
Enclosure Material	Top Cover: Polycarbonate, Bottom Cover: Milled Aluminum
Wall Mount Material	Galvanized Steel
Weatherproofing	IP68

HARDWARE	
Network Interface	Ethernet, WiFi, Bluetooth
Management Interface	(1) GbE RJ45 Port
Button(s)	Reset/Factory Reset
LED	Blue, White
Power Method	PoE+
Power Supply	PoE+ Enabled Network Switch or 48V, 0.5A PoE Adapter (Optional)
Supported Voltage Range	42.5-57V DC
Power Consumption	25W Max, 7 - 15W Typical @ 23° C (73° F)
Max. Transmit Power	2.4 GHz: 23 dBm @2NSS, 5 GHz: 26 dBm @4NSS
MIMO	5 GHz: 4 x 4, DL/UL MU-MIMO, DL/UL MU-OFDMA 2.4 GHz: 2 x 2. DL/UL MU-OFDMA Explicit TX beam-forming
Throughput Rate	2.4 GHz: Up to 574 Mbps, 5 GHz: Up to 5.8 Gbps
Antenna Gain	2.4 GHz: Up to 3.3 dBi, 5 GHz: Up to 4.3 dBi
Mounting	Pole mount, wall mount
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC (Visit Alta.inc for a full list of certifications)



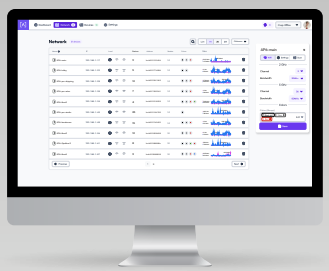




AP6-PRO OUTDOOR | SPECIFICATIONS

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SOFTWARE	
WiFi Standards	802.11a/b/g/n/ac/ax (WiFi4/WiFi5/WiFi6)
Roaming	802.11r/k/v
Wireless Security	WPA2-Personal (PSK), WPA3-Personal (SAE), WPA-Enterprise (WPA2/WPA3)
Multiple SSID	32 (16 per Radio), Unlimited per Site
Ability to Limit Clients Per SSID	Yes
VLAN	802.1Q
Advanced QoS	802.11e
Guest Traffic Isolation	Supported
Concurrent Clients	350+
Zero Wait DFS	Yes
Intelligent WiFi Scheduling	Yes
Hotspot Functionality	Yes
Scalable To Stadiums	Yes
Seamless Per-Client Settings	VLAN, Device Type, Rate Limit, Hotspot/Schedule Exception

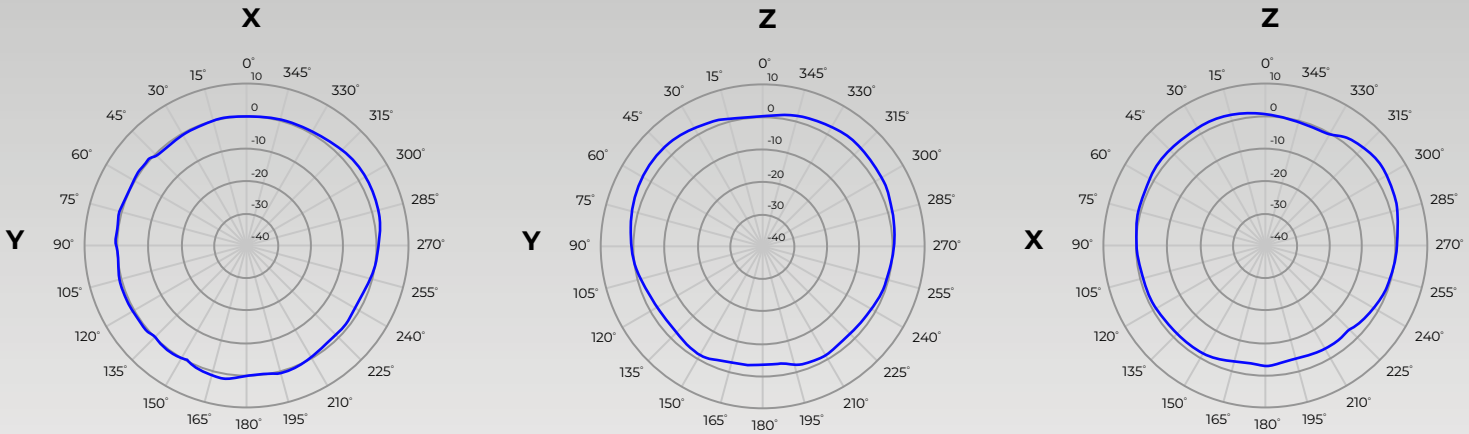


SUPPORTED DATA RATES	
802.11a/g	6 Mbps to 54 Mbps
802.11b	1 Mbps to 11 Mbps
802.11n	6.5 Mbps to 600 Mbps (Up to MCS 31)
802.11ac	6.5 Mbps to 3.4 Gbps (Up to MCS 9)
802.11ax	2.4 GHz: Up to 574 Mbps, 5 GHz: 6.5 Mbps to 5.8 Gbps (Up to MCS 13)

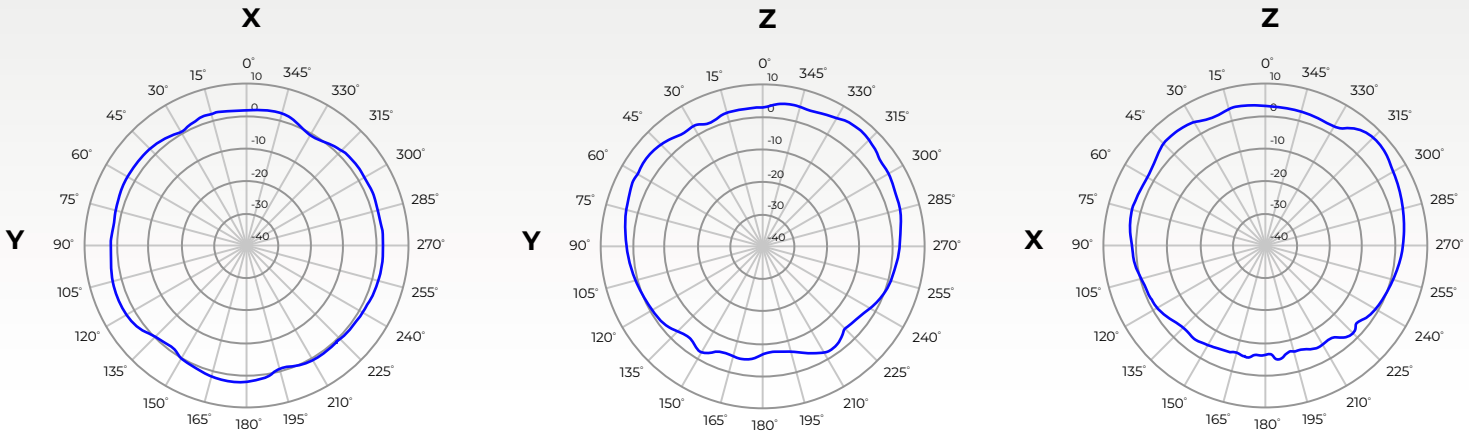
FEATURE COMPARISON

Features	AP6	AP6-PRO	AP6-PRO OUTDOOR	AP6W
WiFi 6	✔	✔	✔	✔
Bluetooth (For Easy Adoption	✔	✔	✔	✔
Content Filtering	✔	✔	✔	✔
PoE+	✔	✔	✔	✔
2.4 GHz MIMO	2 x 2	2 x 2	2 x 2	2 x 2
5 GHz MIMO	2 x 2	4 x 4	4 x 4	2 x 2
Max WiFi Throughput	3.0 Gbps	6.3 Gbps	6.3 Gbps	3.0 Gbps
4096 QAM	-	✔	✔	-
IP RATED	-	IP54	IP68	-

2.4 GHz



5 GHz



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