

AP One Enterprise

It Just Keeps Getting Better



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FAQ - AP One Enterprise

Is the AP One Enterprise suitable for me?



What is the AP One Enterprise?

The AP One Enterprise is a tri-band Wi-Fi 7 (802.11be) indoor access point designed for high-density enterprise environments. It operates simultaneously on 2.4 GHz, 5 GHz, and 6 GHz, and integrates directly with the Peplink ecosystem for centralized management and security. The AP One Enterprise is intended for:

- Enterprise offices and campuses
- Airports, transportation hubs, and large public venues
- Education and training facilities
- Hospitality and convention centers
- Any deployment requiring high client density, low latency, and predictable performance

It is optimized for **capacity and concurrency**, not just coverage.



How fast is the AP One Enterprise?

Maximum supported data rates are:

- 2.4 GHz: up to 1,374 Mbps
- 5 GHz: up to 5,755 Mbps
- 6 GHz: up to 11,511 Mbps

Actual throughput depends on channel width, client capability, RF conditions, and regulatory limits.



What is Wi-Fi 7 and how is it different from Wi-Fi 6 / 6E?

Wi-Fi 7 (802.11be) introduces:

- Wider channels (up to 320 MHz)
- Lower latency for real-time applications
- Higher aggregate throughput per access point
- Improved efficiency in dense client environments

It is particularly beneficial where many devices are active simultaneously or where latency-sensitive applications are used.

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What is the benefit of the 6 GHz band?

The 6 GHz band offers:

- Significantly less interference
- Wider contiguous channels
- Better performance consistency

This makes it suitable for high-throughput and low-latency enterprise applications. Availability depends on local regulatory approval.



How many clients can the AP One Enterprise support?

The AP One Enterprise supports up to 512 recommended clients per radio, assuming proper RF design and typical enterprise traffic patterns.



Is the AP One Enterprise backward compatible with older Wi-Fi devices?

Yes. The AP One Enterprise supports Wi-Fi 7, Wi-Fi 6/6E, Wi-Fi 5, and Wi-Fi 4 clients concurrently, allowing gradual client upgrades without replacing the wireless infrastructure.



Which certifications does the AP One Enterprise have?

The AP One Enterprise is certified under FCC, RoHS, REACH, CE, and UKCA.

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Using the AP One Enterprise



What power input options are supported?

The AP One Enterprise supports two power options:

- **802.3bt PoE++**
- **12V DC power input**

Power adapters and PoE injectors are not included.



What happens if the AP One Enterprise is powered by an 802.3at (PoE+) switch?

If the access point is connected to a standard 802.3at (PoE+) switch, the switch may cut power if the device draws more than the available PoE budget, which can cause the access point to reboot. For stable operation, 802.3bt (PoE++) or a properly rated 12V DC power supply is recommended.



What is the power consumption?

Nominal and maximum power consumption are 37 W and 39 W, respectively. PoE budget planning should account for maximum draw.



What Ethernet interfaces are available?

The AP includes **two 10G multi-gig RJ45 Ethernet ports**.

These ports are designed to eliminate wired uplink bottlenecks and support full Wi-Fi 7 throughput in enterprise deployments.



Why does the AP One Enterprise use dual 10G Ethernet ports?

Wi-Fi 7 can exceed the capacity of 1G and 2.5G uplinks. Dual 10G ports ensure:

- No wired backhaul bottleneck
- High-speed uplink to access or core switches
- Optional downstream connectivity for wired devices

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What mounting options are supported?

The AP One Enterprise supports **ceiling and wall mounting** using the included hardware.



What is the enclosure material and supported operating temperature?

The AP One Enterprise is housed in a plastic enclosure with a metallic bottom. The supported operating temperature range is 0°C to 40°C (32°F to 104°F).



How far should the AP One Enterprise cable run?

The ideal Ethernet cable length is a maximum of 328ft/100m. However, for the best performance and connection stability, we recommend a maximum of 263ft/80m in case the Ethernet cable quality is not perfect.



What if I need 2 separate Wi-Fi networks, 1 for employees and 1 for visitors?

You can create 2 separate Wi-Fi networks with “Layer 2 Isolation” or “Guest Protect” for privacy and security. These two features are similar but have some key differences.

When “Layer 2 Isolation” is enabled, it will block the communication between Wi-Fi clients within the same VLAN, SSID or subnet, while the “Guest Protect” feature will block communication between a Wi-Fi client and wired clients within the same VLAN and clients from other VLANs.

You can learn more about Layer 2 Isolation and Guest Protect [here](#).



Does the AP One Enterprise support wireless mesh?

The AP One Enterprise supports wireless mesh and WDS operation, allowing coverage to be extended in areas where Ethernet cabling is not available.

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How does the tri-band design help with mesh deployments?

The tri-band architecture allows one radio band to be used for mesh backhaul while preserving capacity on the remaining bands for client traffic. This results in more stable performance compared to dual-band mesh designs, particularly under load.



Is Captive Portal supported?

Yes. The AP One Enterprise supports captive portal functionality for guest access, including custom branding and time- or usage-based access control. Configuration is performed via AP Controller or InControl 2.

Managing the AP One Enterprise



How is the AP One Enterprise managed?

The AP One Enterprise can be managed locally using Peplink's AP Controller on supported routers or centrally through the InControl 2 cloud management platform. This provides flexibility between on-premises control and cloud-based operations.



What is AP Controller?

[Peplink's AP Controller](#) is a software-based AP management tool built into all Peplink routers, which doesn't require an active warranty or subscription. Our AP Controller is available in 2 versions: AP Controller Standard and AP Controller Pro.

AP Controller Standard supports up to 2 configuration profiles with multiple SSIDs, meaning all APs share the same configuration, and management is limited to APs on the local physical LAN.

AP Controller Pro supports unlimited configuration profiles with multiple SSIDs and allows management of remote APs outside the local physical LAN.



Can AP Controller and InControl 2 be used simultaneously?

No. When AP Controller is enabled, connected access points are managed locally. To manage access points through InControl 2, AP Controller must be disabled.

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Which Peplink routers support AP Controller?

To know if a device supports Peplink's AP Controller, you may view our Peplink Router Comparison Table [here](#). Select the model you wish to check then scroll down and expand the "Features" tab. In the expanded tab, if "Yes" is stated under "Pepwave AP Series Management", this device supports AP Controller Standard. If "Yes" is stated under "Remote AP & Multiple Config Profiles Management", this device supports AP Controller Pro. Otherwise, this device does not support Peplink's AP Controller.

What does the AP One Enterprise include?



What's in the box?

- 1 × AP One Enterprise access point
- 2 × T-rail clips with screws
- 1 × Mounting bracket
- 1 × Mounting screw set
- 1 × L-shaped hexagonal wrench

Note: PoE injectors or adapters are not included in the box.



Is the AP One Enterprise covered by warranty?

Yes. The AP One Enterprise includes a 1-year limited warranty.



Can the warranty or support coverage be extended?

Yes. PrimeCare and PrimeCare+ support plans are available in **1-year, 2-year, and 4-year** options.

Model	PrimeCare+	PrimeCare
AP One Enterprise <i>APO-ENTR</i>	1-Year 2-Year 4-Year	1-Year 2-Year 4-Year

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What can I do if I need support?



Does Peplink offer support for this product? What if I have difficulties setting it up?

First, Peplink Partners are proud to always provide support to you, our users, so always reach out to the place of purchase first.

For those who prefer self-service, Peplink has a very active [forum](#). Our regular forum users include Peplink Partners, the Peplink team, and many knowledgeable users. Generally, folks with questions get answers rather quickly.

In the unlikely event of a suspected hardware or firmware issue, you can directly enter a [support ticket](#) with Peplink. You will then receive attention from some of the best engineers! Peplink supports its owners like no other.



I can't access the Internet via AP One Enterprise. What can I do?

Visit [this link](#) (troubleshooting section) for a basic software walkthrough and troubleshooting guide. If you need further assistance, please reach out to us on our [forum](#), and the team will get you online.