

# MAX Orbit 8

Purpose-Built for Robust Multi-Orbit Connectivity



## FAQ

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# FAQ - MAX Orbit 8

## Is the MAX Orbit 8 suitable for me?



### What is the MAX Orbit 8?

The MAX Orbit 8 is the high capacity model in Peplink's multi-orbit router series. It lets you combine multiple satellite connections, such as Starlink and OneWeb, along with other WAN sources into a single resilient network. It features eight 2.5G Orbit Ports with 802.3at PoE+ output for connecting and powering satellite terminals, 10G and 10G SFP+ LAN ports, two USB-C WAN ports, built-in Wi-Fi 7, GPS, and Peplink SpeedFusion technology with up to 4 Gbps router throughput. It is purpose-built for demanding fixed, mobile, and rack-mounted deployments.



### What does multi-orbit mean?

Multi-orbit refers to using satellite networks that operate in different orbits, such as Low Earth Orbit services like Starlink and OneWeb, together at the same time. The MAX Orbit Series lets you bond these connections so that if one satellite link is obstructed, congested, or handing over, the others keep your network online.



### Which satellite networks does the MAX Orbit 8 support?

The MAX Orbit Series works with major satellite providers including Starlink, OneWeb, and Iridium. Through Peplink's management platform, InControl, you can manage these networks together from one place without hopping between separate provider portals.



### Does the MAX Orbit 8 have a built-in satellite dish or cellular modem?

No. The MAX Orbit 8 does not include a built-in satellite terminal or cellular modem. It connects to external satellite terminals, such as a Starlink or OneWeb dish, through its Orbit Ports, and to other WAN sources such as a 5G FWA router or fiber connection through its Ethernet, SFP+, and USB-C ports. This lets you bond and manage all of them as one network.

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## How is the MAX Orbit 8 different from the other MAX Orbit models?

The three models share the same multi-orbit bonding and management capabilities but differ in capacity, ports, throughput, and number of supported users:

|                          | MAX Orbit 2     | MAX Orbit 4       | MAX Orbit 8                         |
|--------------------------|-----------------|-------------------|-------------------------------------|
| <b>Orbit Ports</b>       | 2 (1G and 2.5G) | 4x 1G             | 8x 2.5G with PoE+ output            |
| <b>Wi-Fi</b>             | Wi-Fi 6         | Wi-Fi 6           | Wi-Fi 7                             |
| <b>Router throughput</b> | 1 Gbps          | 1 Gbps            | 4 Gbps                              |
| <b>Recommended users</b> | 1 to 150        | 1 to 150          | 50 to 500                           |
| <b>LAN ports</b>         | 1x 1G           | 2x 2.5G (WAN/LAN) | 1x 10G RJ45 (WAN/LAN) + 1x 10G SFP+ |



## Is the MAX Orbit 8 suitable for mobile use?

Yes. The MAX Orbit 8 is built with a rugged, vibration-tolerant design and integrated GPS, and it operates in temperatures from -40°F to 149°F (-40°C to 65°C), making it suitable for large vehicles and vessels. It is also rack-mountable for fixed installations using the included ear rack mount kit.



## What are the best use cases for the MAX Orbit 8?

The MAX Orbit 8 is ideal for high demand deployments that bond many satellite terminals, including large vessels, broadcast operations, large remote sites, and high reliability backup for fiber and ISP links at cellular towers, warehouses, datacenters, and energy and mining sites.



## Is the MAX Orbit Series TAA compliant?

Yes. The MAX Orbit Series is TAA (Trade Agreements Act) compliant, making it suitable for US government and public sector procurement.

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## What is included with the MAX Orbit 8?



### What accessories come included with the MAX Orbit 8?

The package includes one MAX Orbit 8 unit, one 54V DC 5.19A power supply, two dual-band Wi-Fi antennas, one GPS active antenna, one ear rack mount kit with screws, and one rubber foot pad set.



### Does a warranty come included with this product?

All products come with a 1-year limited warranty. Warranty and support services are provided through a PrimeCare subscription, which can be extended on a year-by-year basis.



### What is PrimeCare?

PrimeCare is a subscription that bundles InControl cloud management, warranty services, ticket support, and standard RMA.



### What is PrimeCare+?

PrimeCare+ is an upgrade to PrimeCare. It includes everything offered in PrimeCare plus advanced hardware replacement RMA and 24/7 ticket support.



### Which PrimeCare Plan should I buy for the MAX Orbit 8?

PrimeCare Plan E or PrimeCare+ Plan E is suitable for the MAX Orbit 8. It is available in 1-year, 2-year, and 4-year terms.

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## Using the MAX Orbit 8



### How do I connect my satellite terminals to the MAX Orbit 8?

Connect each satellite terminal to one of the MAX Orbit 8's eight 2.5G Orbit Ports using an Ethernet cable. Once connected, the device recognizes each terminal as a WAN source that can be bonded with the others.



### Can the MAX Orbit 8 power my satellite terminals over Ethernet?

Yes. The eight 2.5G Orbit Ports support 802.3at PoE+ output with a total PoE power budget of 240W, so you can power satellite terminals directly over Ethernet. A DC input voltage of 50V to 54V is required to enable PoE output.



### How do I add a 5G or cellular connection?

The device does not have a built-in cellular modem. You can add 5G or LTE by connecting an external cellular router or 5G FWA device to one of the Ethernet WAN ports, then bonding it with your satellite connections.



### Can I use the USB-C ports on the MAX Orbit 8?

Yes. The MAX Orbit 8 has two USB-C ports that can be used as WAN connections, for example with an external cellular modem, or for external storage to expand edge computing capacity.



### What voltage is required to power the MAX Orbit 8?

The MAX Orbit 8 ships with a 54V DC 5.19A power supply. It can be powered through its two 54V DC power inputs, the AC adapter, or the 12V to 54V DC terminal block. Note that a 50V to 54V DC input is required to enable PoE output.



### What is the power consumption of the MAX Orbit 8?

The nominal power consumption is 25W, and the maximum is 50W (without PoE and USB-C output).

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## Can I rack mount the MAX Orbit 8?

Yes. The MAX Orbit 8 includes an ear rack mount kit with screws and a rubber foot pad set, so it can be rack-mounted or used on a desktop.



## What does the Orbit LED indicate?

The Orbit LED is a dedicated status light that shows the overall health of your satellite connections at a glance:

- A **steady light** means all your connected satellite links are healthy and online.
- A **slow blink** means at least one satellite link is down or obstructed while the others stay online. Your network is still up but running in a degraded state, so it is worth checking the affected terminal.
- **No light** means none of your satellite links are currently providing internet, or no satellite connection is set up.



## How does the device decide the Orbit LED status?

The Orbit LED only looks at WAN ports you have configured as a Satellite Connection that also have a terminal physically connected. A link counts as healthy when the device detects the satellite terminal and confirms it has working internet access. The LED then reflects whether all, some, or none of those links are healthy.

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## Licenses and Software Features



### **How does the MAX Orbit 8 combine multiple satellite connections?**

Peplink SpeedFusion technology bonds multiple WAN connections, including satellite connectivity, into one faster and more reliable connection. Supported technologies include Bandwidth Bonding, Hot Failover, Smoothing, and SpeedFusion Boost.



### **What is SpeedFusion Boost?**

SpeedFusion Boost keeps your connection running at full speed even over high-latency or lossy links. Normally, when packets are lost, the sender slows down and resends, dragging throughput down. With SpeedFusion Boost, your Peplink router recovers those lost packets locally across the SpeedFusion connection, so the sender never has to slow down. The result is fast, steady throughput even through obstructions and handovers.



### **What is SpeedFusion Score?**

SpeedFusion Score, available in InControl, continuously evaluates the health, resilience, and performance of your bonded networks. It helps you identify performance gaps and shows how adding WAN connections or enabling more SpeedFusion features can improve your score.



### **How many SpeedFusion VPN peers does the MAX Orbit 8 support?**

The MAX Orbit 8 supports 2 SpeedFusion VPN peers by default, and up to 30 peers with a PrimeCare subscription, which is complimentary for the first year.



### **What is the SpeedFusion VPN throughput of the MAX Orbit 8?**

The MAX Orbit 8 delivers up to 1 Gbps of SpeedFusion VPN throughput without encryption, and up to 1 Gbps with 256-bit AES encryption.

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## **Can I manage the MAX Orbit 8 remotely?**

Yes. You can manage the device remotely through InControl. This management platform lets you manage Starlink, OneWeb, and Iridium connections together from one dashboard centrally. Remote management requires a valid PrimeCare subscription.



## **Does the MAX Orbit 8 support GPS fleet tracking?**

Yes. The device has a built-in GPS receiver and supports InControl GPS fleet management, making it suitable for vehicle and asset tracking.



## **What Wi-Fi does the MAX Orbit 8 support?**

The MAX Orbit 8 has simultaneous dual-band (2.4GHz / 5GHz) Wi-Fi 7 2x2 MIMO. The Wi-Fi can be used as a Wi-Fi WAN source and/or as an access point for client devices.



## **Can the MAX Orbit 8 run edge applications?**

Yes. The MAX Orbit 8 supports Docker-based edge computing with 8GB of internal storage, plus external storage via the USB port, allowing you to run containerized applications directly on the device.



## **Can the MAX Orbit 8 act as an AP and switch controller?**

Yes. It includes a standard AP and switch controller that manages up to 30 access points, expandable to 50 with the AP-LC-50 license add-on.

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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 provide support to the users of the products they have sold, so always reach out to the place of purchase first.

For those who prefer self-service, Peplink has a very active [forum](#). Among the regular forum users are Peplink Partners, Peplink employees, and many very knowledgeable users. Generally, folks with questions get answers rather quickly. In the unlikely event of a suspected hardware or firmware issue, you can enter a [support ticket](#) with Peplink directly. In such cases, you will receive attention from some of the best engineers. Peplink supports its users like no other.



### **I can't access the Internet via the MAX Orbit 8. What can I do?**

Visit [this link](#) (troubleshooting section) for a basic software walkthrough and troubleshooting guide. If that doesn't work, reach out on [our forum](#) and the team will get you online.