Splitter MAX

FAQ

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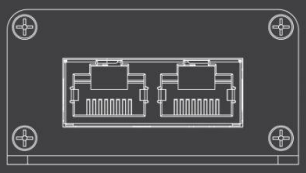


FAQ - Splitter MAX

What is a Splitter MAX?

The Splitter MAX is a rugged, industrial-grade PoE splitter. It accepts 802.3af/at PoE input (typically 48V-56V) over an Ethernet cable and splits it into Ethernet output (data only) and DC output. This allows non-PoE devices to be powered using a single network cable, eliminating the need for a separate power adapter.

However, do not confuse it with a PoE injector. It does not turn a non-PoE switch into a PoE injector.

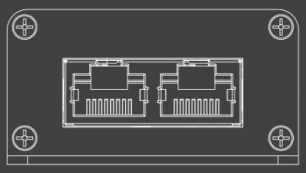
What is the power output of the Splitter MAX and which Peplink devices can I power with the Splitter MAX?

The total output from the Splitter MAX is 12V DC with a maximum output power of 48W.

The Splitter MAX is compatible with devices such as:

- BR1 Mini series
- B One series
- BR1 Pro series
- BR2 Pro
- Transit series
- MAX Adapter
- POTS Adapter

Note: Any Peplink router with a maximum power consumption is 48W or less can be powered by the Splitter MAX.



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What is one common use case for the Splitter MAX?

A particularly effective use case is powering non-PoE Peplink routers housed inside the Antenna MAX enclosure. The Splitter MAX converts the PoE connection to the appropriate 12V DC power required by these devices, enabling a clean, single-cable installation that delivers both power and data.

This solution is ideal for installations where only PoE infrastructure is available, but the devices require a standard DC power input.

What power sources are accepted by the Splitter MAX?

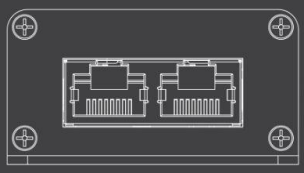
The Splitter MAX has a power inlet that accepts IEEE 802.3bt PoE and is also compatible with 802.3af/at standards.

What is the output voltage, and can it be adjusted?

The Splitter MAX does not have adjustable voltage—it always outputs 12V DC.

Is a Splitter MAX compatible with Peplink PoE switches?

The Splitter MAX accepts IEEE 802.3bt PoE input (and is backward compatible with 802.3af/at). Peplink PoE switches that provide 802.3af, 802.3at, or 802.3bt will work. Also, make sure the PoE switch has enough available power budget per port to supply the Splitter MAX along with the connected non-PoE device.



FAQ - Splitter MAX

Will the Splitter MAX protect my devices from over-voltage (surge, EFT, ESD) events?

Yes, the Splitter MAX provides robust protection against over-voltage events. It offers comprehensive safeguards for your devices:

Protection Against Over-Voltage Events

- IEC 61000-4-2 ESD (Electrostatic Discharge) Protection:
  – Up to ±8 kV contact discharge
  – Up to ±15 kV air discharge

- IEC 61000-4-4 EFT (Electrical Fast Transient) Protection:
  – Up to ±2 kV on the PoE IN port

- IEC 61000-4-4 Surge Protection:
  – Up to ±4 kV, 1.2/50 µs, line-to-ground on the PoE IN port

Additional Protection Features

- Galvanic Isolation:
  Provides galvanic isolation on both power and Ethernet lines to prevent ground loops and shield connected equipment from external electrical noise.

- Integrated Surge Protection:
  Built-in surge protection offers an extra layer of defense against power anomalies that might otherwise damage connected devices.

Can I power multiple devices with one splitter?

Yes. The Splitter MAX can be used to provide power for multiple Peplink devices. However, note that the maximum power output of the Splitter MAX is 48W, so the total combined power consumption of the connected devices must not exceed this limit.