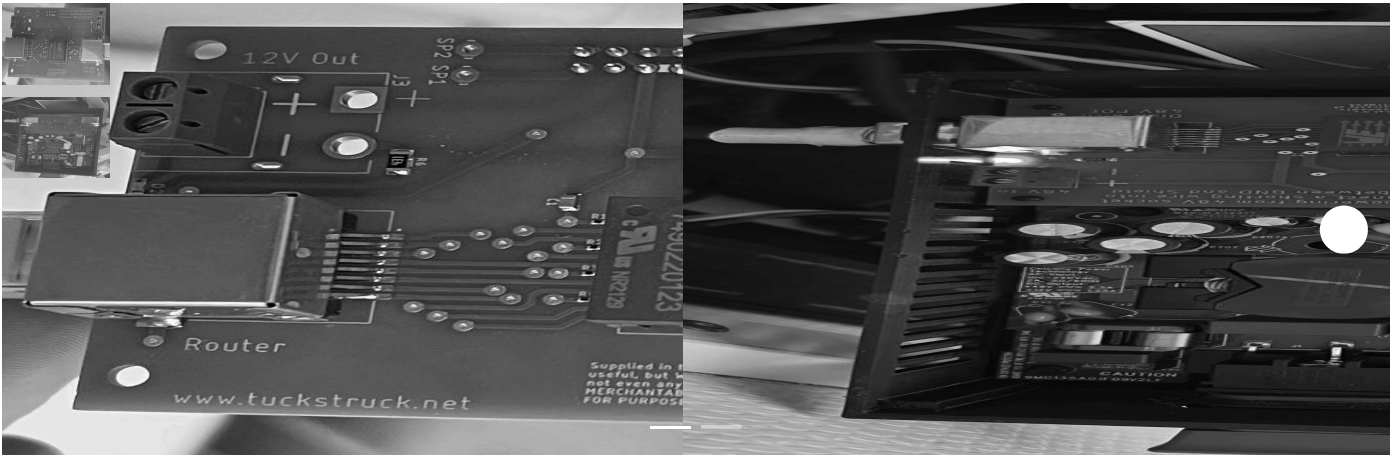


Fusion gallery / Gadget



Starlink POE Injector that can be used with the Starlink router power supply or a 48V DC PSU.

Published by Marcus on 05 February,2023 View: 3345

A Starlink POE injector that does not require special cables configurations. It can be powered by the Starlink router power supply or 48V.

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Gadget

Story, Setup and Software

If you're a geek like me, there are several reasons why you might want to replace the standard router issued by Starlink. To replace the router, you'll need a POE (Power Over Ethernet) Injector. You'll can also use a POE Injector if you want to run the Starlink dish on DC power rather than AC (running the dish on DC rather than through an inverter while off grid can reduce the power consumption by as much as 40%! See my DC conversions: <https://tuckstruck.net/truck-and-kit/geekery/modifying-the-starlink-power-supply-to-run-on-ac-and-dc/>).

POE injectors are common devices that are readily available to buy. However, Starlink does not follow the conventional POE configuration, and this can complicate the use of a standard POE Injector. The round Dish uses T-568B configuration for its dish ethernet cable. The rectangular Dish uses a different connector, but the signals to colour codes of the cables are the same. For example: a cable from a rectangular Dish, fitted with a shielded RJ45 connector wired to T-568B can be plugged into and powered from a round Dish power supply. I have listed all the parts required and how I assembled and tested this POE injector on my website see: <https://tuckstruck.net/truck-and-kit/geekery/starlink-poe-injector/>

Bill of Material

Gerber File	1822186_gerber.zip

Attachment and Link

Quantity	Description
Link to website with full info	I have the full project described on this web page.

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