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Quick Start

Congratulations on your purchase of the Overland Electronics OE-SLPOE01.

The Overland Electronics OE-SLPOE01 is a custom high power PoE injector that connects to your Starlink using modified wiring and allows you to use a 48V, 56V or 57V DC power supply to power your Dishy using power over ethernet (PoE) injection instead of the supplied/OEM AC power supply. The OE-SLPOE01 is compatible with Starlink's 1st Generation "round" Dishy (voltage input 56 VDC), 2nd Generation "rectangular" Dishy (voltage input 48 VDC) or 3rd Generation "high performance" Dishy (voltage input 57 VDC). Using the OE-SLPOE01 with your Starlink Dishy instead of the bundled OEM AC power supply can save you up to 30% of of your Dishy's total power consumption if you are running your Starlink Dishy off a DC power source by eliminating the energy that's typically lost in AC to DC power inversion. The OE-SLPOE01 also frees you to use your own router and networking equipment with your Starlink Dishy and the compact design of our device can save space and opens up a range of mounting options that simply aren't possible with the bulky OEM AC power supply and router.

See the [Setup](#) and [Technical Information](#) section for all the details required to get your Dishy powered by the OE-SLPOE01. Please note that the setup and installation of the OE-SLPOE01 does require you to be comfortable with crimping a wire. In the event you have any concerns with this process, please consult a certified electrician.

Package Contents

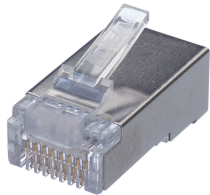
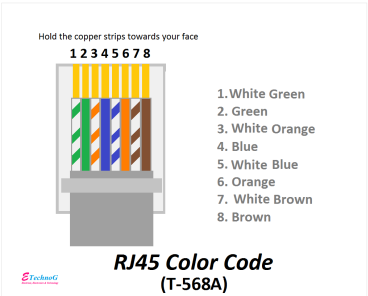
Included

- 1x OE-SLPOE01
- 2x RJ-45 connectors
- 1x Fuse (Preinstalled)

Not included

- Crimping tool (needed for Round Dishy)
- 48 or 56V DC voltage source
- Network Device (Router)
- Ethernet Cable (cat5/5e/6/7)
- Starlink Hardware
- Boost Converter (Most RVs, vehicles and boats 12V to 48, 56V or 57V)
- Screws or double sided tape (for mounting)
- Flathead Screwdriver

Terminology

<p>PoE / Power over Ethernet</p>	<p>A technology for enabling the electrical current necessary for operating a device carried over ethernet instead of standard power cables</p>
<p>PoE Injector</p>	<p>Connects your PoE enabled network device (Starlink) to a non-PoE LAN switch port</p>
<p>RJ45 Connector</p> 	<p>The connector used on either end of an ethernet cable</p>
<p>T-568B Termination</p>  <p>Hold the copper strips towards your face 1 2 3 4 5 6 7 8</p> <ol style="list-style-type: none">1. White Green2. Green3. White Orange4. Blue5. White Blue6. Orange7. White Brown8. Brown <p>RJ45 Color Code (T-568A)</p>	<p>Termination standards used for ethernet wiring (cat5e/6) into RJ45 connectors</p>

Technical Information

This PoE injector is designed to inject voltage over all conductors: (1 2 3 6 for +VE and 4 5 7 8 for -VE). This pinout is common to both 1st Generation “round” and 2nd Generation “square” Dishy.

Networking

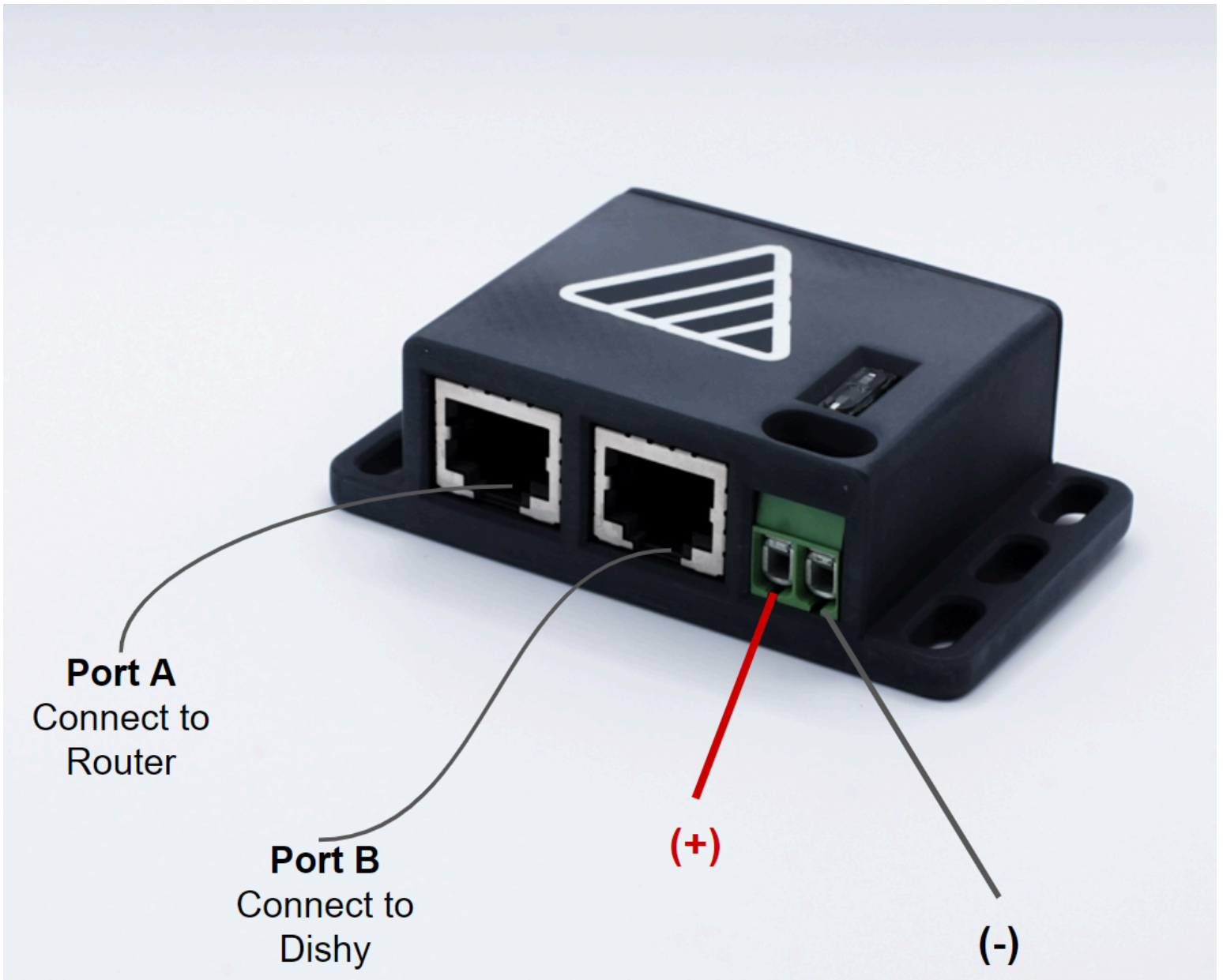
- *Supported standards:* LAN 10/100/1000 Base-T
- *Connector termination:* T-568B (W/O, O, W/G, B, W/B, G, W/Br, Br)
- PoE pins: 1 2 3 6 for +VE and 4 5 7 8 for -VE.

Electrical

- Input Voltage (Not Supplied)
 - 56V for 1st Generation “round” Dishy
 - 48V for 2nd Generation “square” Dishy
- Current Consumption (Max): 2A
- Voltage Drop: 85mV / 0.085V (Tested using 48V@1A)
- Protection: Built in high efficiency reverse polarity protection

Additional notes

- Designed purely for Starlink Dishy 1st Generation (Round) and 2nd Generation (Rectangular).
- Shield and voltage ground lines are not connected by default. Jumper pads (JMP1) on a board can be shorted to connect shield and ground.



Setup

Instructions - 1st Generation “Round” Dishy

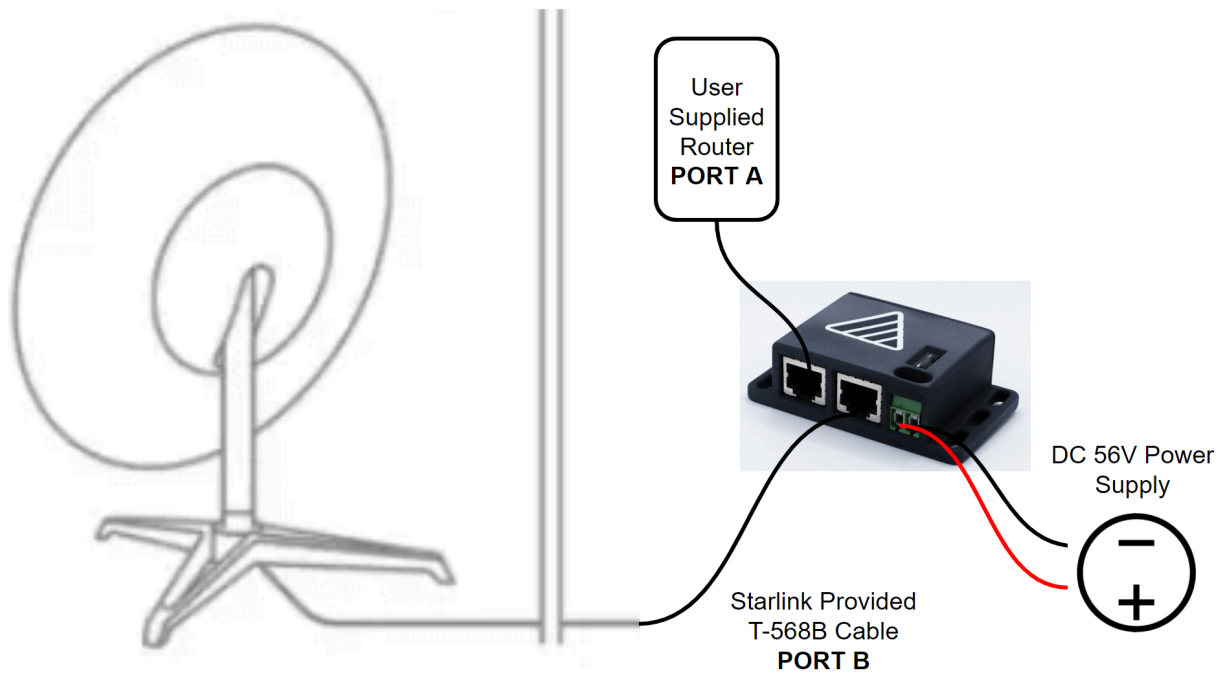
Requirements

- Starlink and Dishy 1st Generation (Round).
- Constant DC Voltage Source 56V that is capable of delivering at least 3A.
- Network device (router, computer/laptop, wifi AP) with client DHCP to pull an IP address from the Starlink modem.

Note: For a 1st Generation “ROUND” Dishy do not cut or crimp any cables!

CAUTION: ENSURE ALL STARLINK AND OVERLAND ELECTRONICS COMPONENTS AND CABLES ARE DISCONNECTED AND POWERED OFF BEFORE PROCEEDING!

1. Disconnect all cables and ensure the power is off on your Starlink hardware and Overland Electronics hardware. Place the proprietary Starlink router aside, it will not be needed to operate Overland Electronics OE-SLPOE01 (the Starlink router will no longer be used).
2. Connect the ethernet cable from the “round” Dishy to Port B of the OE-SLPOE01.
3. Connect another ethernet cable from Port A on the OE-SLPOE01 to your supplied networking device.
4. Supply 56V DC to the power input terminals. Use a small flathead screwdriver to tighten down the power input wires.
5. Be patient, wait for 2-5 minutes to let the dish lock onto satellites
6. Mount the OE-SLPOE01 using double sided tape or the screw holes on either side of the device in your chosen location.



Instructions - 2nd Generation “Square” Dishy

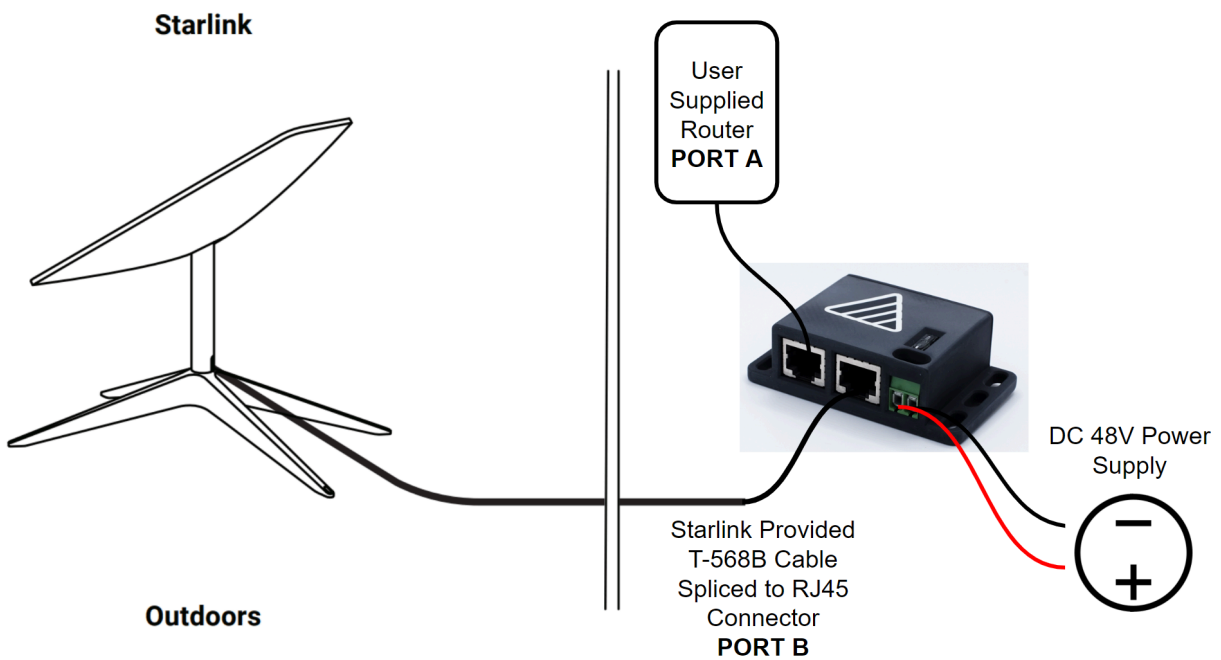
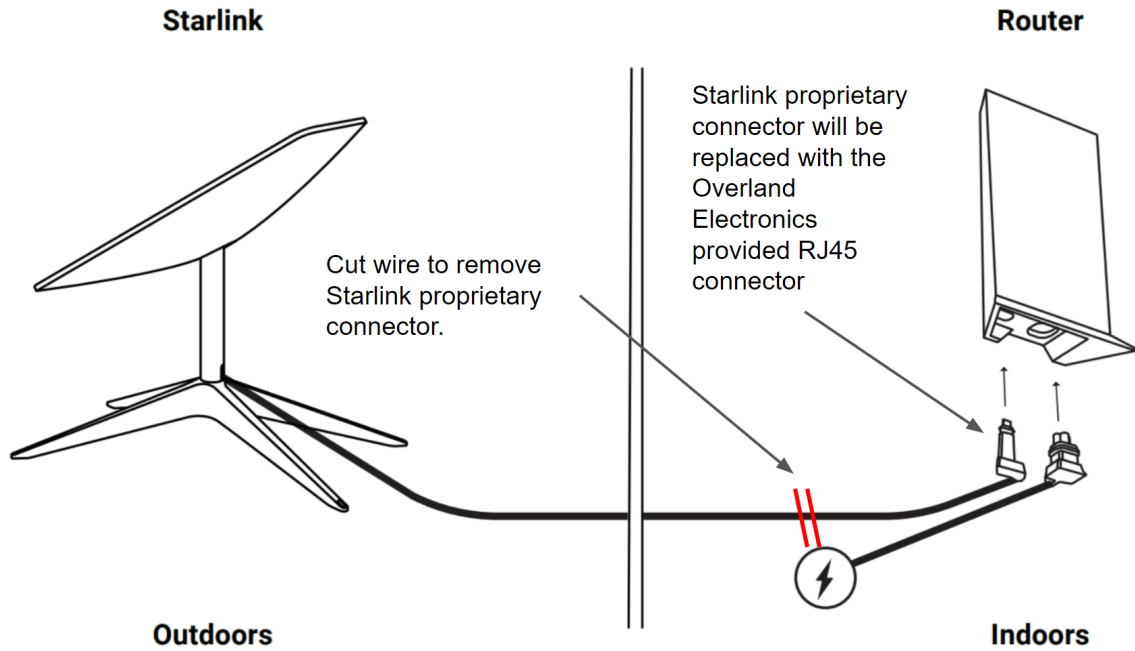
Requirements

- Starlink and Dishy 2nd Generation (Rectangular).
- Constant DC Voltage Source of 48V that is capable of delivering at least 3A.
- Network device (router, computer/laptop, wifi AP) with client DHCP to pull an IP address from the Starlink modem.

CAUTION: ENSURE ALL STARLINK AND OVERLAND ELECTRONICS COMPONENTS AND CABLES ARE DISCONNECTED AND POWERED OFF BEFORE PROCEEDING!

1. Disconnect all cables and ensure the power is off on your Starlink hardware and Overland Electronics hardware. Place the proprietary Starlink router aside, it will not be needed to operate Overland Electronics OE-SLPOE01 (the Starlink router will no longer be used).
2. Using your crimping tool, cut the proprietary connector off the end of the cable that will connect to the Starlink router to Dishy. See crimping section below.
3. Expose the individual wires within the larger cable jacket by cutting away approximately ½” of the jacket.
4. Crimp the wires into one of the RJ45 connectors provided (see “Crimping” section)
5. Connect the crimped RJ45 connector into **Port B** of the OE-SLPOE01 and the other end of the cable to Dishy.
6. Using a standard ethernet cable (cat5/5e/6/7) with RJ45 connectors ends, connect **Port A** on the OE-SLPOE01 to your user provided network device (Router).
7. Supply 48V DC to the power input terminals. Use a small flathead screwdriver to tighten down the power input wires.
8. Be patient, wait for 2-5 minutes to let the dish lock onto satellites

9. Mount the OE-SLPOE01 using double sided tape or the screw holes on either side of the device in your chosen location.



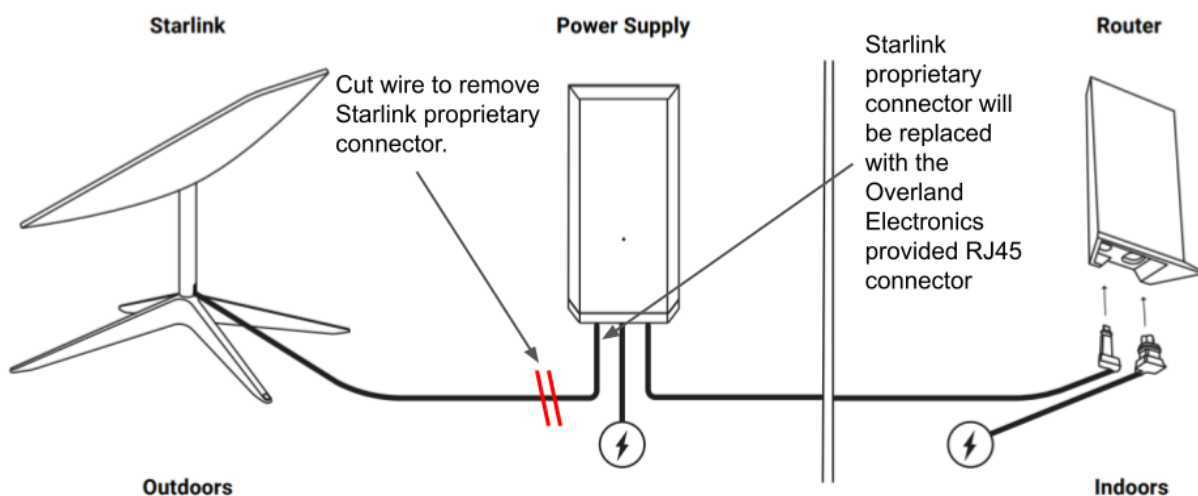
Instructions - 3rd Generation High Performance Dishy

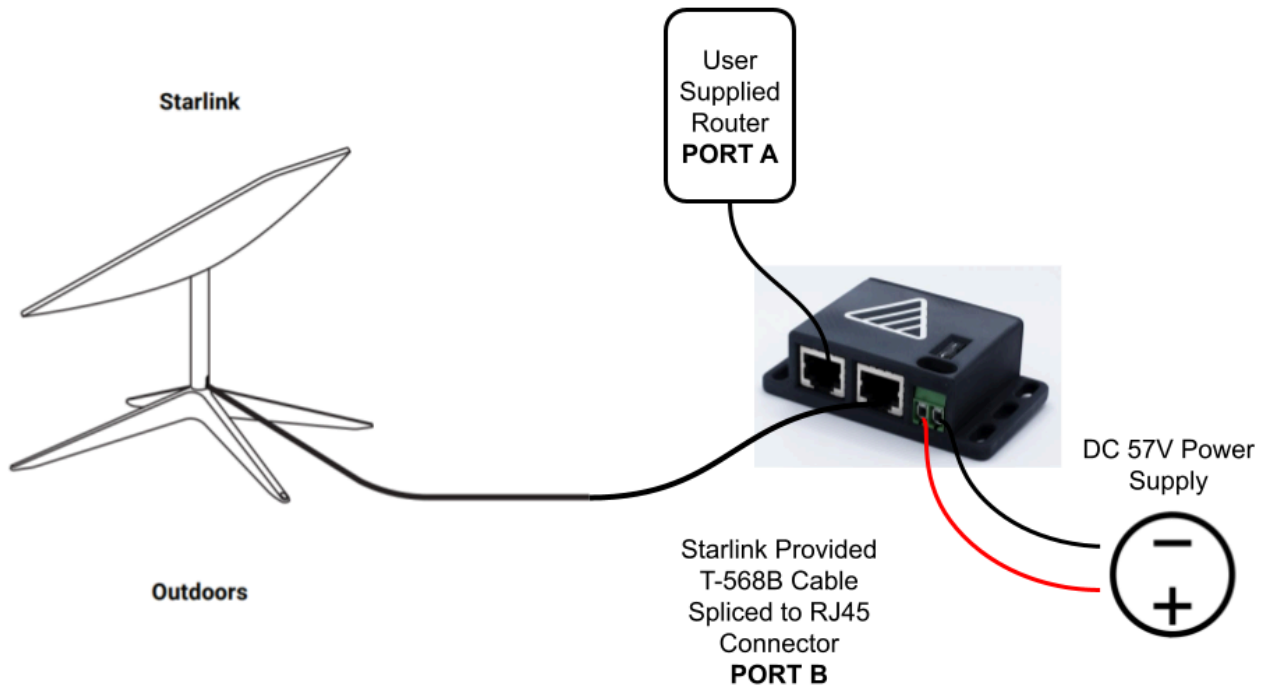
Requirements

- Starlink and Dishy 3rd Generation (Rectangular).
- Constant DC Voltage Source of 57V that is capable of delivering at least 4A.
- Network device (router, computer/laptop, wifi AP) with client DHCP to pull an IP address from the Starlink modem.

CAUTION: ENSURE ALL STARLINK AND OVERLAND ELECTRONICS COMPONENTS AND CABLES ARE DISCONNECTED AND POWERED OFF BEFORE PROCEEDING!

1. Disconnect all cables and ensure the power is off on your Starlink hardware and Overland Electronics hardware. Place the proprietary Starlink router and power supply aside, it will not be needed to operate Overland Electronics OE-SLPOE01 (the Starlink router and power supply will no longer be used).
2. Using your crimping tool, cut the proprietary connector off the end of the cable that will connect to the Starlink router to Dishy. See crimping section below.
3. Expose the individual wires within the larger cable jacket by cutting away approximately ½” of the jacket.
4. Crimp the wires into one of the RJ45 connectors provided (see “Crimping” section)
5. Connect the crimped RJ45 connector into **Port B** of the OE-SLPOE01 and the other end of the cable to Dishy.
6. Using a standard ethernet cable (cat5/5e/6/7) with RJ45 connectors ends, connect **Port A** on the OE-SLPOE01 to your user provided network device (Router).
7. Supply 57V DC to the power input terminals. Use a small flathead screwdriver to tighten down the power input wires.
8. Be patient, wait for 2-5 minutes to let the dish lock onto satellites
9. Mount the OE-SLPOE01 using double sided tape or the screw holes on either side of the device in your chosen location.



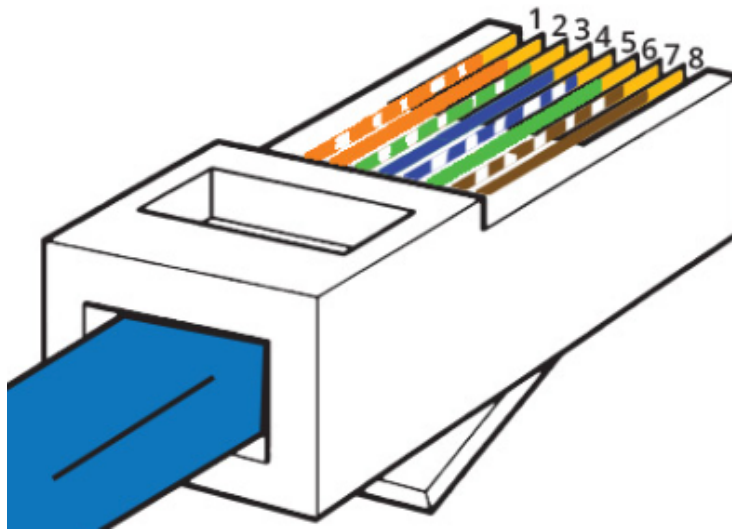


Crimping

Note: As mentioned above this step is required for the 2nd Generation “square” and 3rd High Performance Dishy. DO NOT cut any wires and skip this step if you are using a 1st Generation “round” Dishy!

The OEM V2 Square Dishy cable has to be crimped onto a new RJ45 connector (which is provided) using the wiring standard T-568B:

RJ45 Pinout T-568B



Note: If you were planning to route your cable through narrow spaces during installation, this is a good opportunity to do it while one end is cut and not crimped yet.

Video guide on crimping:

https://www.youtube.com/watch?v=NWhoJp8UQpo&ab_channel=SwitchedOnNetwork

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