INSTALLATION GUIDE

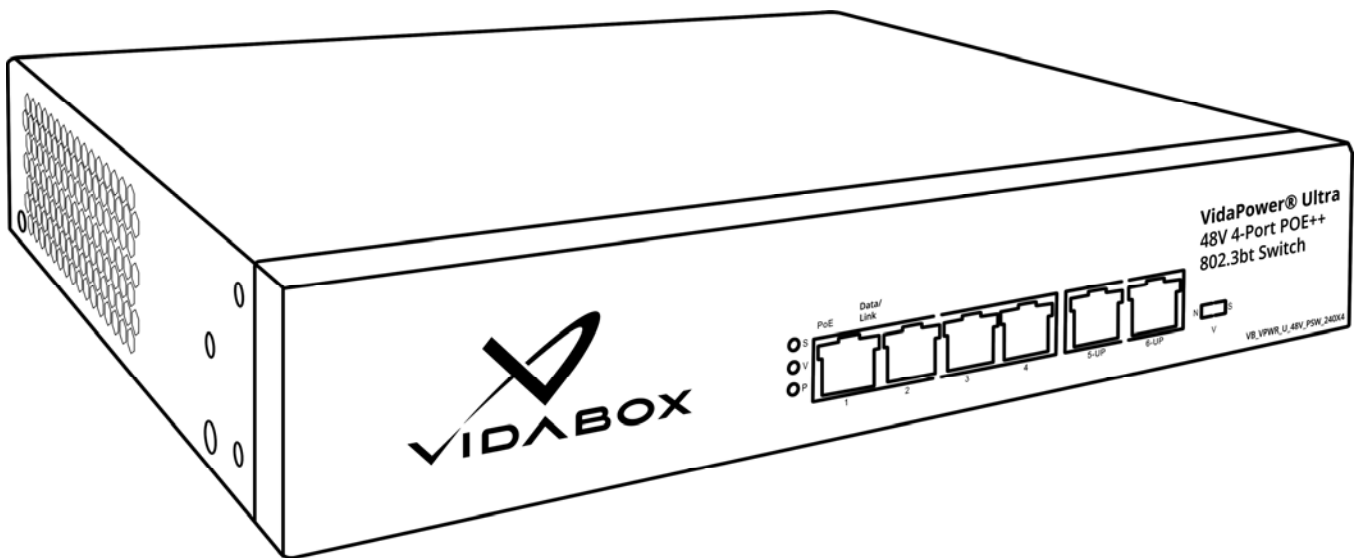## 48V VidaPower® Ultra 4-Port PoE++ 802.3bt Ethernet Switch

VB_VPWR_U_48V_PSW_240X4

Optimized for 48V VidaCharger Ultra Power Adapters

With (4) x PoE RJ45 Output Ports + (2) Non-Powered RJ45 Uplink Ports

Works with IEEE 802.3bt (60W), 802.3at (30W), and 802.3af (15.4W) devices
Backwards compatible with Redpark / Lava / PoE Texas brand adapters

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DOES NOT OUTPUT 24V · NOT BACKWARDS COMPATIBLE WITH OLDER 24V VIDACHARGER ADAPTERS

Installation Instructions

48V VidaPower® Ultra 4-Port PoE++ 802.3bt Ethernet Switch
Optimized for 48V VidaCharger® Ultra Power Adapters

Important Notes:

- **Do not use older, 24V VidaCharger products with this VidaPower Switch**.
- Indoor use ONLY. The switch must be used only in a dry, non-condensing environment.
- The included AC power cord must be plugged into a properly grounded wall outlet for safety. Do not use any 3-prong to 2-prong converters or adapters, which bypass grounding & compromise installation safety.
- The switch must be placed on a stable surface, preferably affixed and mounted permanently.
Do not leave it "dangling" and using plugged in cables as tension support. Drops, falls, and impacts experienced by the switch can compromise the internal components & cause premature failure.
- Do not place heavy objects on top of this switch.
- Allow at least 4 inches of clearance on all sides of the switch for heat ventilation.

Overview

With (4) RJ45 ports, this high wattage, PoE++ switch is optimized for use with 48VDC, VidaCharger® Ultra adapters – supplying up to a total of 240W maximum, or 60W per RJ45 port! There is no need to configure the switch – installation is simply "Plug-n-play!" Follow these instructions below for a fast, successful setup!

Component Checklist:

48V VidaPower® Ultra
4-Port PoE++ 802.3bt Switch
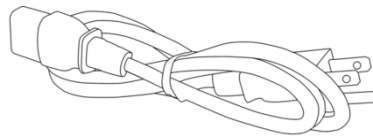
Power Cord
(Kitted for US, EU, UK, AUS, or
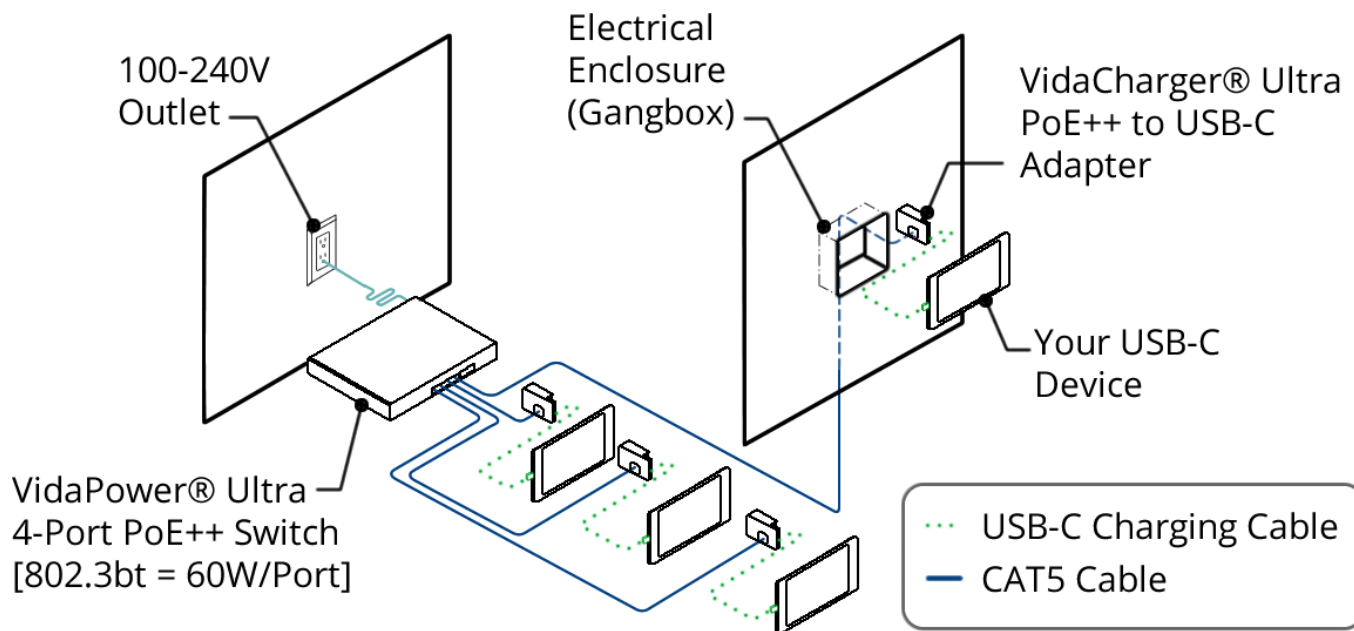other region-compatible plug)

Installation Steps

1. Connect the power cable's trapezoidal plug into the rear of the 48V Switch

2. Connect the power cable into a standard wall outlet. The unit's Power LED should now light up, confirming power.

3. Connect your CAT5/5e/6 cables that require PoE power into any of the (4) RJ45 ports.
   Be sure NOT to plug a PoE cable into the uplink port [5-UP / 6-UP], which does NOT provide any PoE power.

NOT a Powered Port
(2 x Uplink only)

Power LED
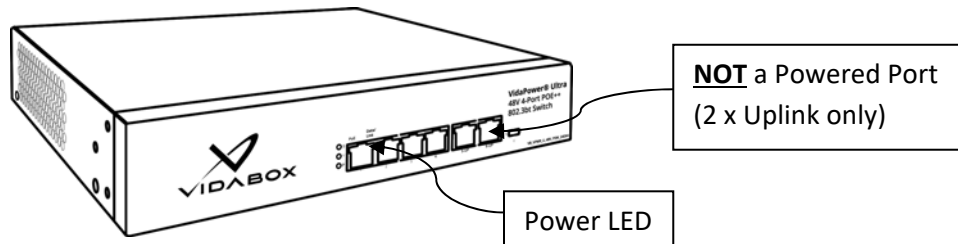
4. OPTIONAL: For PoE endpoints requiring data-passthrough, be sure to connect an Ethernet uplink into Ports 5-UP or 6-UP. Only 1 connection is required – not both.

5. At the other end of the cable, connect your 48V VidaCharger®, Redpark, Lava, or PoE Texas Adapters.
   The installation is now complete!

Sample Wiring Diagram

100-240V Outlet

Electrical Enclosure (Gangbox)

VidaCharger® Ultra PoE++ to USB-C Adapter

Your USB-C Device

VidaPower® Ultra 4-Port PoE++ Switch [802.3bt = 60W/Port]

⋯ USB-C Charging Cable
— CAT5 Cable

N-V-S Switch Settings

Setting	Mode	What does it do?
N	Standard Sharing (**Normal**)	All ports communicate freely, suitable for common data transmission environments
V	Port Isolation	The (4) PoE ports are isolated with data upload/download only through the uplink port. Designed to inhibit broadcasting storms / attacks & other failures.
S	Ultra Transmission	Limits the (4) PoE ports down to 10Mbps to allow 250m ultra-long data transmission

LED Indicator Chart

Indicator	Status	Condition
PoE	Light On	Switch/Port is powered (Default / **NORMAL**)
	Light Off	Switch is powered off / port is not plugged in / no power
Data/Link	Light On	Ethernet connection is established
	Light Off	Ethernet connection is not established (NORMAL if used with power-only adapters)
	Flashing	Ethernet data transmission (Only flashing when data is passed through)

Troubleshooting Guide

Problem:
- The switch's Power LED doesn't light up / receives no power

Please check the following:
- On the wall outlet:
  · Is the power cord plugged into a wall outlet? Make sure it's plugged in firmly.
  · Is the wall outlet controlled by another switch (i.e. a light flip switch?) Try another outlet that is known to be working.

- On the 4-Port switch:
  · Is the correct / included Power Cord being used?
  · Make sure the trapezoidal plug is pushed into the back of the switch firmly.
    Disconnect, then firmly push back in to make sure it's plugged in firmly. A loose connection will NOT work.
  · Try another wall plug-to-Power supply cable? (It's a common computer power cord)
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Problem:
- The switch appears to be working, but my connected USB devices are not charging and/or there's no data pass-thru

Please check the following:
- On the device to be charged:
  · Ensure the USB cable is plugged in firmly – remove and re-seat the USB cable.
  · Is the USB cable working? Try another USB cable, as USB cables can "go bad" over time.

- On the VidaCharger adapter:
  · Check and confirm the RJ45 connection is firmly plugged in. If so, check the CAT5/5e/6 cable next.
  · Is the RJ45 connecting cable's clip snapped-in? Be sure the cables are assembled and connected.
  · For Data Issues / Problems: Are we connecting into a supported tablet?
      IMPORTANT: Some tablets / devices (Amazon Fire tabs / select Galaxy Tabs) do NOT support data pass-thru.

- On the CAT5 / wiring cable runs:
  · Are there any intermediaries / interconnects on the cable run, such as patch panels, female-to-female adapters, etc?
    If so, remove / test run a new, shorter line. These interconnects add resistance to the line and drops power output.
    Only straight, direct runs from this switch / power supply to the VidaCharger® Ultra or other adapter should be used.
  · How long is the cable run? CAT5/5e/6: Up to 330' (100m) is supported. CAT3 / 16AWG wire are not officially supported.