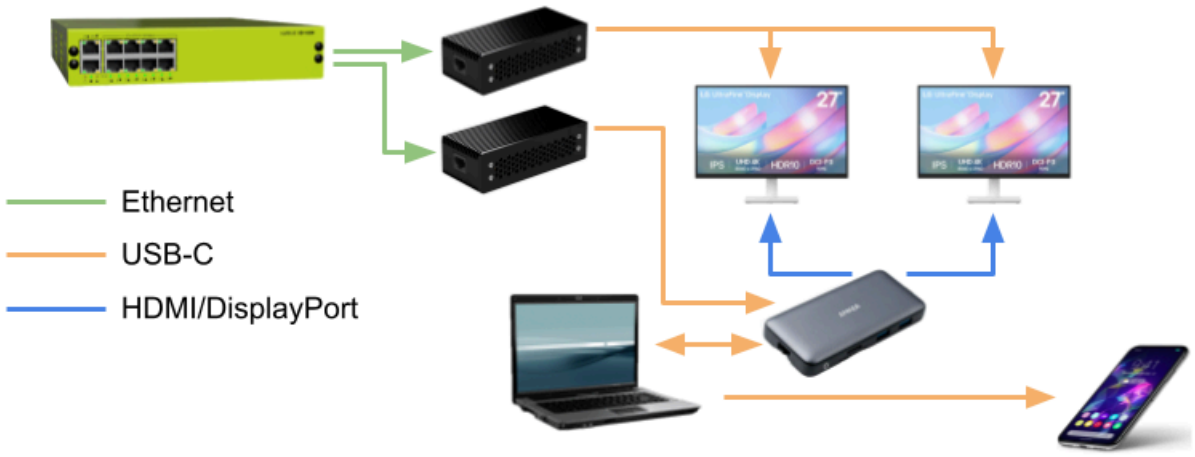
DC DESK - EXAMPLE LAYOUT

LAYOUT

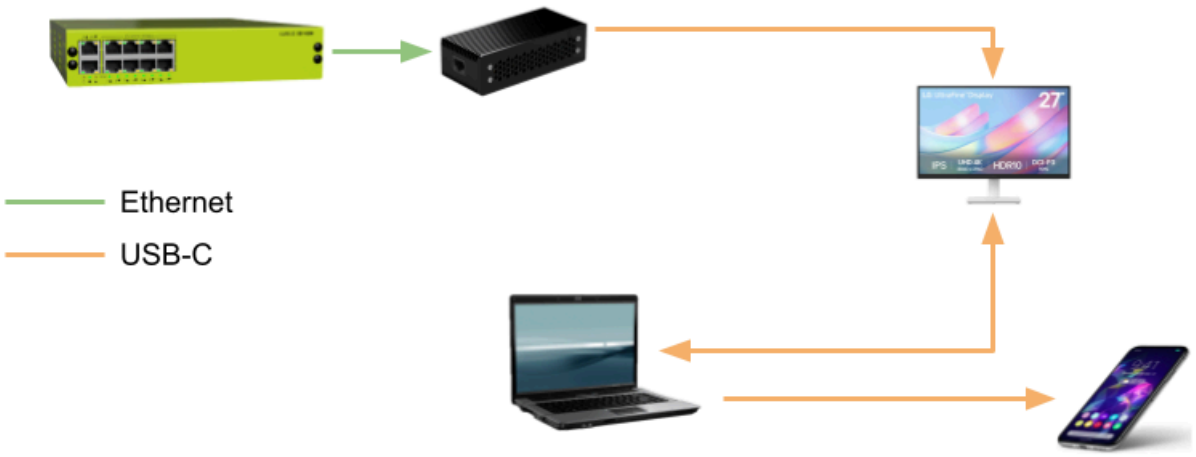
Luum.io's DC Desk approach reimagines workspace power delivery using the X-PoE system and USB-C-based infrastructure. By distributing safe, low-voltage DC power to desks, we eliminate bulky AC adapters and enable clean, efficient workstations with universal device compatibility. Below are three common example scenarios that showcase how Luum's USB-C high-power bricks and outlets support modern desks and devices with simplified wiring, flexible layouts, and high-efficiency DC distribution.

Performance Desk



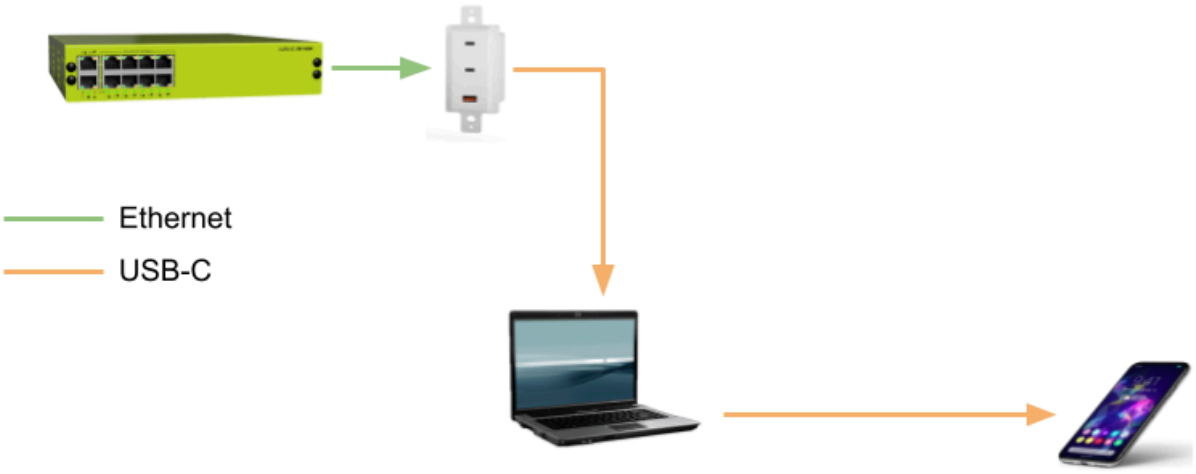
This high-capacity setup features two Luum.io 100W USB-C bricks supplying power to two monitors via DC input as well as a docking hub. Both monitors connect to the docking hub using HDMI. The docking hub powers the laptop and delivers video output to both displays. A phone or peripheral can be charged from the laptop's USB-C port. Ideal for power users with dual displays and extensive I/O needs.

Standard Desk



A Luum.io 100W USB-C brick powers a single monitor equipped with USB-C Power Delivery and DisplayPort Alt Mode. A single USB-C cable connects the monitor to the laptop, handling both charging and video. This clean, all-in-one connection creates a tidy and capable workspace, while the laptop can also charge a phone or accessory via its own USB-C port.

Lightweight Desk



Designed for simplicity and mobility, this setup uses a Luum.io 65W USB-C outlet to charge a laptop directly. With no external monitors or docking hardware, it's a plug-and-play solution for hot desks, shared workstations, or minimal environments. The laptop can still charge a phone or other USB-C device, making this a compact yet functional DC-powered desk.

OUTLETS & DEVICES

- Luum.io X-PoE USB-C high-power bricks deliver up to 100W for powering multiple monitors or high-performance workstations.
- Luum.io X-PoE USB-C outlets provide up to 65W of power directly to laptops and other USB-C devices.
- Commercially available monitors with integrated USB-C Power Delivery and DisplayPort Alt Mode enable single-cable video and charging.
- USB-C docking stations and hubs consolidate power, video, and data through a single device connection.
- Universal compatibility with user-supplied laptops, phones, and accessories supports flexible, device-agnostic desk configurations.

SYSTEM COMPONENTS

Luum.io USB-C Power Delivery

Description	Vendor	Part Number
8 Port X-PoE Lighting Controller	Luum.io	XS-108H (power supply not included)
100W USB-C High Power Brick	Luum.io	XPOE-DCB-100
65W USB-C Outlet	Luum.io	POE-DCO-65

Compatible Display Devices

Most off-the-shelf monitors and TVs are compatible with Luum.io USB-C power bricks, as long as they meet a few simple criteria:

- Power Consumption: The display must consume less than 50W when used individually or in a dual-monitor configuration.
- External Power Supply: Displays that use an external brick-style power adapter are typically compatible with Luum.io DC bricks. These displays can often be powered with a USB-C to barrel adapter.
- Video Connectivity: Monitors with USB-C Power Delivery and DisplayPort Alt Mode offer the most seamless experience, but HDMI or DisplayPort inputs can also be used when paired with a dock or hub.

Some configurations may require simple cable adapters to match connector types (e.g., USB-C to barrel, USB-C to slim tip, etc.).

Compatible Docks And Hubs

Most off-the-shelf USB-C docks, hubs, and accessories work seamlessly in X-PoE desk configurations, provided they meet a few key requirements:

- Power Input: The dock or hub should support USB-C Power Delivery and operate within a 100W power budget when powered from a USB-C brick, or 40W when supplied from a Luum-powered monitor.
- Video and Data Output: Many docks provide HDMI or DisplayPort outputs, USB expansion, Ethernet, and other essential I/O for a fully functional workstation.
- Pass-Through Charging: Choose models that support USB-C PD pass-through to ensure your laptop receives power and maintains a single-cable connection.

Choosing a dock within the appropriate power budget ensures stable operation and reliable charging in any desk scenario.

RELATED INFORMATION

Technical Support

Questions about these DC desk layouts can be sent to support@luum.io.

Document Feedback

While we have taken great care to ensure the accuracy and completeness of this document, we welcome your feedback and suggestions. If you notice any errors or omissions, or feel a topic could benefit from further explanation, please email your feedback to support@luum.io.

Revision History

Date	Revision	Notes
11/3/2026	A	Converted to the current guide format.

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