

PoE to USB-C® Power and Data Adapter



Summary

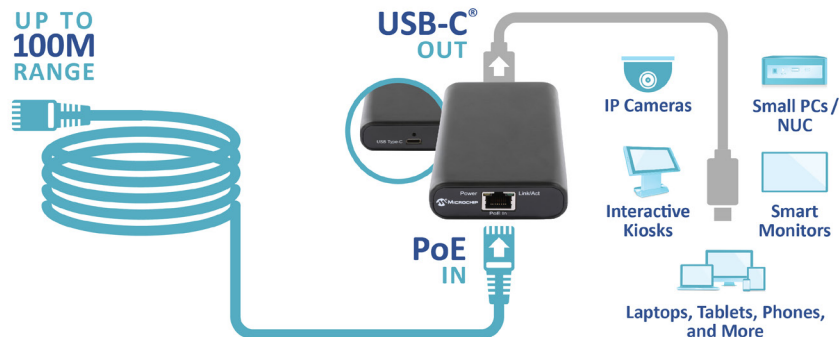
Microchip's PoE to USB-C® Power and Data Adapter connects Internet of Things (IoT) devices with a USB-C connector to Power over Ethernet (PoE) networks, enabling you to leverage the advantages of PoE and USB-C technologies. The Microchip PoE to USB-C Adapter converts both power and data into a single USB-C connector. It enables flexible installation of small PCs/Next Unit of Computing (NUC), IP cameras, interactive information kiosks, smart monitors, tablets and laptops.

Blending the Convenience of PoE With the Power of USB-C

While USB-C cables come at a premium, they can transmit power barely up to ten feet (three meters). However, Ethernet cables can transmit power and data up to 328 feet (100 meters). Clearly, the Ethernet cable is preferable to USB-C — it has almost ten times better reach and is more economical. Additionally, USB-C power and data transmitted using PoE eliminates dependency on electrical (AC or DC) infrastructure, further reducing the costs associated with the adoption of USB-C.

PoE to USB-C®

Transfer Up To 60W of USB Power and Data to Your Devices



Product Highlights

- Converts both power and data to a single USB-C output
- PoE input: Up to 90W
- PoE sources supported: switches and injectors from 15.4W to 90W
- Capability to be powered by PoH and pre-standard switches and injectors
- USB-C output: Data (USB 2.0, USB 3.1 Gen1) and power (up to 60W)
- PoE standards: IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt
- Regulatory compliance: FCC Class B, EN 55032 Class B, CE compliance
- Ordering part number: PD-USB-DP60
- Recommended PoE power source: Microchip 90W 1-port PoE midspan PD-9601GC

Value Proposition

Microchip's PoE to USB-C Adapter offers compelling competitive advantages:

- **Flexible** — extends the installation range up to 328 ft/100m by connecting it to an Ethernet network instead of 3m of using USB-C cable
- **Cost effective** — eliminates the need for electrical infrastructure and reduces installation overhead
- **Plug and play** — simplifies installation with no programming or configuration required
- **Remotely managed** — allows remote power recycling of the end device when installed in a PoE managed network
- **Versatile** — connects to all PoE sources IEEE 802.3af/at/bt
- **Intelligent** — automatically provides the exact amount of power required by the end device

About Microchip mPoE



Microchip multi-Power over Ethernet (mPoE) is a technology that powers any wired network device seamlessly and efficiently, making it the ideal solution for Ethernet-based applications. Leveraging a uniquely designed algorithm, this technology solves interoperability issues between different PoE standards and legacy solutions to provide an international network power standard. As pioneers in PoE, Microchip offers a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).