

# PD-USB-DP30

## Power-over-Ethernet (PoE) to USB-C® Power and Data Adapter

### Summary

The Microchip PoE to USB-C adapter connects IoT devices with a USB-C connector to PoE networks, enabling users to leverage the advantages of PoE and USB-C technologies. This adapter provides both power and data to USB-C hosts and power to USB-C-powered devices.

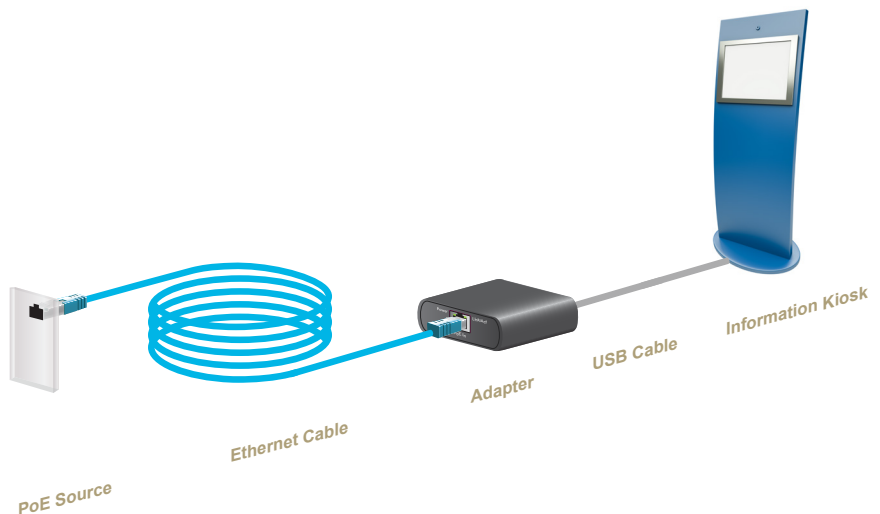
The PD-USB-DP30 adapter enables flexible installation of USB-C devices, removes the need for a close power outlet and resolves the issue of limited USB cable length. The PoE source can be up to 328 ft/100m from the location of the USB-C device. A single Ethernet cable is needed to deliver up to 23.5W of USB power at the output of the adapter.

The PD-USB-DP30 connects with small PCs/Next Unit of Computing (NUC) devices, interactive information kiosks, smart monitors, cellphones, cameras and other USB-C-powered devices consuming up to 23.5W. The adapter is compatible with USB2.0 and USB3.1 and will automatically provide the exact amount of power required by the end device.



### Key Features

- Delivers up to 23.5W output power
- Enables powering of small PCs/NUC devices, interactive information kiosks, smart monitors, cameras and other USB-C-powered devices
- Provides power and data to USB-C hosts
- Allows 328 ft/100m installation range
- Supports PoE switches and injectors from 15.4W up to 90W
- Provides easy-to-use plug-and-play USB-C power with no configuration needed



## Specifications

| Feature                               | Description   |
|---------------------------------------|---|
| Number of Ports                       | 1 PoE input, 1 USB-C® output  |
| Data Rate                             | 10/100/1000 Mbps  |
| PoE Input                             | PoE up to 90W (42-57 Vdc)   |
| USB-C Output                          | Data: USB 2.0, USB 3.1 Gen 1<br>Power: up to 23.5W (5 Vdc/3A, 9 Vdc/2.61A, 15 Vdc/1.57A, 20 Vdc/1.18A)  |
| Dimensions                            | 22.4 mm (H) × 66.8 mm (W) × 105.2 mm (L)<br>0.88 in. (H) × 2.63 in. (W) × 4.14 in. (L)  |
| Net Weight                            | 150g (0.33 lb)  |
| Connectors                            | PoE: Shielded RJ-45, EIA 568A and 568B<br>USB: USB Type-C   |
| Indicators                            | PoE Power: Yellow<br>Data Link: Green<br>Vbus (located on USB-C Cable): Green   |
| Environmental Conditions              | Operating Ambient Temperature: 32°F to 104°F (0°C to +40°C)<br>Operating Humidity: Maximum 90%, Non-Condensing<br>Storage Temperature: -4°F to +158°F (-20°C to +70°C)<br>Storage Humidity: Maximum 95%, Non-Condensing |
| Hazardous Substances                  | CE, WEEE  |
| Warranty                              | 1 year  |
| Extended Warranty Available           | Contact Microchip   |
| Reliability                           | MTBF: 150,000 hrs   |
| Electromagnetic Emission and Immunity | FCC Part 15, Class B<br>EN 55032 Class B<br>EN 55035<br>ICES-003<br>VCCI  |

## Technical Support

For technical support, please visit the Microchip Technical Support Portal at [www.microchip.com/support](http://www.microchip.com/support).

## LAN7800 Driver

To download device drivers for the LAN7800, please visit the LAN7800 web page. [LAN7800](#)

## Ordering Information

| Product Name          | Part Number | Description   |
|-----------------------|-------------|---|
| PoE to USB-C® Adapter | PD-USB-DP30 | PoE to USB-C Data and Power Converter With 30 cm USB Type-C Cable |

## 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 a pioneer in PoE technology, we offer a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).

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