PD-USB-DP60

PoE to USB-C® Power and Data Adapter

Summary

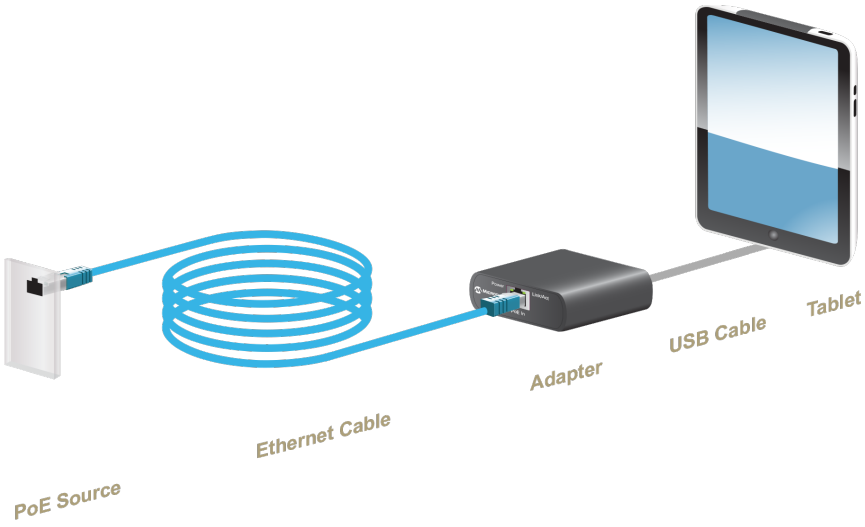
The Microchip PoE to USB-C® adapter connects IoT devices with a USB-C connector to Power over Ethernet (PoE) networks, enabling users to leverage the advantages of PoE and USB-C technologies. The PD-USB-DP60 is a PoE to USB-C adapter that provides both power and data to USB-C hosts and power to USB-C Powered Devices.

The PD-USB-DP60 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 while delivering up to 60W of USB power at the output of the adapter.

The PD-USB-DP60 connects with small PCs/Next Unit of Computing (NUC), interactive information kiosks, smart monitors, tablets, laptops, cellphones, cameras and other USB-C powered devices consuming up to 60W. The adapter is compatible with USB2.0 and 3.1 and will automatically provide to the end device the exact amount of power it needs.

Key Features

- Up to 60W output power
- Enables powering of small PCs/Next Unit of Computing (NUC), interactive information kiosks, smart monitors, tablets, laptops, cameras and other USB-C devices
- Provides power and data to USB-C Hosts
- Allows 328 ft/100m installation range
- Supports PoE switches and Injectors from 15.4W and up to 90W
- Plug and play USB-C power, no configuration is needed, simple to use



Microchip PoE to USB-C adapter connects USB-C devices to the PoE network and converts both power and data into a single USB-C connector.

Specifications

Feature	Description
Number of ports	1 PoE input, 1 USB-C output
Data Rates	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 Power: up to 60W (5VDC/3A, 9VDC/3A, 15VDC/3A, 20VDC/3A)
Dimensions	22.4 mm (H) x 66.8 mm (W) x 105.2 mm (L) 0.88 in (H) x 2.63 in (W) x 4.14 in (L)
Weight	150g (0.33lb)
Indicators	PoE Power: Yellow Data Link: Green VBUS (located on USB-C Cable): Green
Connections	PoE: Shielded RJ45 EIA 568A and 568B USB: USB Type-C
Environmental Conditions	Operating Ambient Temperature: 32°F to 104°F (0°C to 40°C) Operating Humidity: Max 90%, non-condensing Storage Temperature: –4°F to +158°F (–20°C to +70°C) Storage Humidity: Max 95%, non-condensing
Hazardous Substances	CE, WEEE, China RoHS
Warranty	1 year
Extended Warranty Available	Consult Microchip
Reliability	MTBF 150,000 hr
Regulatory Compliance	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt USB PD 3.0
Electromagnetic Emission and Immunity	FCC Part 15 Class B, EN 55032 Class B, VCCI, ICES-003, EN55035

Technical Support

For technical support please visit the Microchip Technical Support Portal 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-DP60	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 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).