# Power over Ethernet (PoE) Extender

## Extends PoE Network Range Cascaded up to 500 Meters

## Summary

With the PoE Extender, you can easily improve the range, placement and strength of your wireless and surveillance networks. It is a cost-effective way to extend the Ethernet network range beyond 100m and it will deliver both data and power to network devices up to 200m while complying with IEEE® PoE and data standards. The PoE Extender has both a PD and a PSE chip inside so that both power and data may be reliably transmitted beyond 100m. The extender acts as a pass-through with data repeating capabilities. It can be cascaded to reach up to 500m from the closest data center or network closet so you can easily install WLAN APs, IP cameras and access controllers where you need them.

## Features

- Plug-and-play installation
- Supports 10/100/1000 Mbps data transfer rates
- Up to 30W of PoE
- Requires Ethernet cables of Cat5 standard or better
- Cascaded for up to 500m

| Feature | Description |
|---|---|
| Number of Ports | 1 |
| Data Rate | 10/100/1000 Mbps |
| Output Power | 30W |
| Dimensions | L × W × H<br>110 mm × 50 mm × 30 mm<br>4.33 in. × 1.97 in. × 1.18 in. |
| Net Weight | 103g |
| Connectors | Shielded RJ-45, EIA 568A and 568B |
| Indicators | Power On Green<br>Network Connection Orange<br>Data Communication Orange<br>Blinks 12 Hz |
| Environmental Conditions | Operating Ambient Temperature: 32ºF to 104ºF (0ºC to +40ºC)<br>Operating Humidity: Maximum 90%, Non-Condensing<br>Storage Temperature: –4ºF to +158ºF (–20ºC to +70ºC)<br>Storage Humidity: Maximum 95%, Non-Condensing |
| Hazardous Substances | CE, WEEE |
| Warranty | 1 year |
| Extended Warranty Available | No |
| Regulatory Compliance | IEEE® 802.3at |
| Electromagnetic Emission and Immunity | FCC Part 15, Class B<br>EN 55032 Class B<br>EN 55024<br>VCCI |

| PSE Source | PD Available Power at 200m |
|---|---|
| 4-pairs IEEE® 802.3at PSE (60W) (e.g. PD-95xx Series) | 25.5W (802.3at PD) |
| IEEE 802.3af PSE (15.4W) (e.g. PD-35xx, PD-65xx Series) | 12.3W (802.3af Class 2 PD) |

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## Technical Support

For technical support, please visit the Microchip Technical Support Portal at www.microchip.com/support.

## Ordering Information

| Part Number | Name | Description |
|---|---|---|
| PD-POE-EXTENDER | PoE Extender | PoE extender to extend the Ethernet network range beyond 100m |

Contact Microchip for other options

## 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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