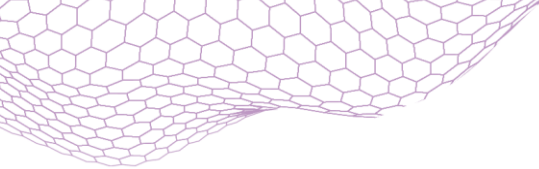




# INDUSTRIAL GRADE, WATER-PROOF OUTDOOR GIGABIT POWER-OVER-ETHERNET EXTENDER

## DDPEIG SERIES





## SYNOPSIS

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- STANDARD ETHERNET AND POE CONNECTIONS ARE LIMITED TO A MAXIMUM CABLE LENGTH OF 100 METERS BETWEEN NETWORK DEVICES.
- TO OVERCOME THIS LIMITATION, A POE EXTENDER CAN BE INSTALLED IN-LINE WITH CAT-5E OR CAT-6 CABLE.
- THE POE EXTENDER ENABLES POWERED DEVICES (PDS) SUCH AS IP SECURITY CAMERAS, VOIP PHONES, AND WIRELESS ACCESS POINTS TO BE DEPLOYED AT DISTANCES EXCEEDING 100 METERS.
- FOR EVERY ADDITIONAL 100 METERS OF CABLE LENGTH, A POE EXTENDER CAN BE CASCADED TO FURTHER EXTEND BOTH ETHERNET DATA AND POE POWER, SUBJECT TO THE AVAILABLE POWER BUDGET AND PD POWER REQUIREMENTS.
- THE POE EXTENDER DOES NOT REQUIRE AN EXTERNAL POWER SOURCE; IT IS POWERED DIRECTLY BY A SINGLE POE SWITCH OR POE MID-SPAN INJECTOR, SIMPLIFYING INSTALLATION AND REDUCING INFRASTRUCTURE COSTS.
- THE DEVICE FEATURES TWO ETHERNET PORTS THAT AUTOMATICALLY NEGOTIATE LINK SPEED, DUPLEX MODE, AND Crossover (AUTO-MDI/MDIX), ENSURING SEAMLESS CONNECTIVITY.
- FULL NETWORK THROUGHPUT IS MAINTAINED ACROSS THE EXTENDED LINK, ENSURING RELIABLE DATA TRANSMISSION WITHOUT PERFORMANCE DEGRADATION.

## FEATURES

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- IEEE802.3, IEEE 802.3U, IEEE802.3AB, IEEE802.3AF, IEEE802.3AT.
- AUTOMATICALLY DETECTS AND PROTECTS POE EQUIPMENTS FROM BEING DAMAGED BY INCORRECT INSTALLATION
- COMPACT SIZE, WALL-MOUNTABLE DESIGN
- EASY PLUG-AND-PLAY INSTALLATION
- IP65 ALUMINUM CASE
- OPERATING AMBIENT TEMPERATURE: -5 TO 50 DEG C

## TECHNICAL SPECIFICATIONS

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| No. of channels           | 1                                                                                                 |
| PoE Interfaces            | 1 x RJ-45 Connector for 802.3af/at Power Input<br>1 x RJ-45 Connector for 802.3af/at Power Output |
| PoE Standard              | IEEE802.3af, IEEE802.3at                                                                          |
| Input PoE Voltage         | 44 to 57VDC                                                                                       |
| Pass Through Data Rates   | 10/100/1000 Mbps, Half/Full duplex                                                                |
| Input PoE Pin Assignment  | Both 1/2 (-), 3/6 (+) or 7/8 (-), 4/5 (+)                                                         |
| Output PoE pin Assignment | 1/2 (-), 3/6 (+)                                                                                  |
| Output PoE Wattage        | 22W max                                                                                           |
| Connectors                | RJ-45, EIA 568A and 568B                                                                          |
| Network cables            | UTP category 5 (or higher)                                                                        |

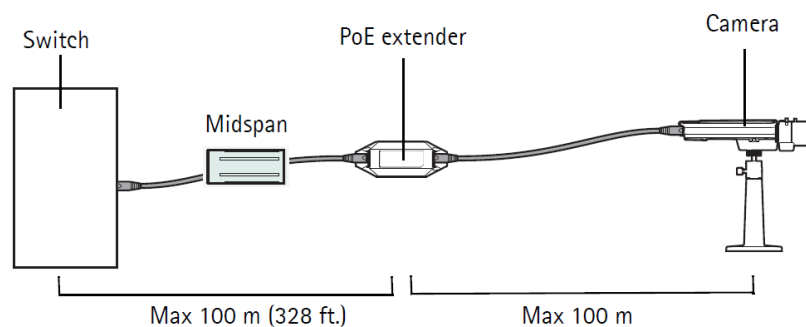
## MECHANICAL

|                   |                     |
|-------------------|---------------------|
| Dimension (L*W*H) | 145mm x 60mm x 40mm |
| Installation      | Wall or shelf       |
| IP rating         | Outdoor IP65        |

## ENVIRONMENTAL

|                       |                     |
|-----------------------|---------------------|
| Operation Temperature | -40 to 75degC       |
| Storage Temperature   | -40 to 75deg C      |
| Operating Humidity    | 95%, Non-condensing |

## APPLICATION DIAGRAM



## MAXIMUM DISTANCE FOR POWER SOURCES

Multiple PoE Extenders can be connected every 100 meters to obtain greater distances. The actual figures depend on operating conditions. The range is over 24 AWG or heavier Cat-5e or Cat-6 cable except where specified.

### Low power PoE Devices (PoE Class 1, or require under 4 watts)

| PoE Source              |                           |                          |                           |
|-------------------------|---------------------------|--------------------------|---------------------------|
| PoE switch<br>(802.3af) | 15W mid-span<br>(802.3af) | PoE+ switch<br>(802.3at) | 30W mid-span<br>(802.3at) |
| Maximum Distances       |                           |                          |                           |
| 400m                    | 400m                      | 500m                     | 500m                      |

### Medium power PoE Devices (PoE Class 2, or require under 6 watts)

| PoE Source              |                           |                          |                           |
|-------------------------|---------------------------|--------------------------|---------------------------|
| PoE switch<br>(802.3af) | 15W mid-span<br>(802.3af) | PoE+ switch<br>(802.3at) | 30W mid-span<br>(802.3at) |
| Maximum Distances       |                           |                          |                           |
| 300m                    | 300m                      | 400m                     | 400m                      |

### Full power PoE Devices (Class 0 or 3, or require under 12 watts)

| PoE Source              |                           |                          |                           |
|-------------------------|---------------------------|--------------------------|---------------------------|
| PoE switch<br>(802.3af) | 15W mid-span<br>(802.3af) | PoE+ switch<br>(802.3at) | 30W mid-span<br>(802.3at) |
| Maximum Distances       |                           |                          |                           |
| 200m                    | 200m                      | 300m                     | 300m                      |

### PoE+ Devices (PoE Class 4 that under 22 watts, or 802.3at compliant)

| PoE Source              |                           |                          |                           |
|-------------------------|---------------------------|--------------------------|---------------------------|
| PoE switch<br>(802.3af) | 15W mid-span<br>(802.3af) | PoE+ switch<br>(802.3at) | 30W mid-span<br>(802.3at) |
| Maximum Distances       |                           |                          |                           |
| Not applicable          | Not applicable            | 200m                     | 200m                      |

## ORDERING CODE

DDPEIG IP65 Hi

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| <b>DDPEIG</b> | Industrial Grade Water-Proof Outdoor Gigabit Power-over-Ethernet Extender |
| <b>IP65</b>   | IP65 Rated                                                                |
| <b>Hi</b>     | Fixed                                                                     |



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