Installation Guide

XPD-T2P

2-channel X-PoE® panel-mount powered device



INTRODUCTION

About This Guide

This guide provides complete instructions for installing and setting up the XPD-T2P module. It includes details on mounting, wiring, power connection, commissioning, and basic troubleshooting.

Cautions and Warnings

When installing hardware, it is important to follow safety precautions to avoid potential injuries or damage to the equipment. Failure to follow safety guidelines can result in electric shock, fire, or other hazards.

Definitions

> **NOTE**
>
> A note is typically used to provide additional information or clarification that is relevant to the installation process. It may include recommendations, tips, or other useful information that can help ensure a successful installation.

> **CAUTION**
>
> A caution statement indicates a potential hazard that could result in minor or moderate injury, or cause damage to the product if appropriate precautions are not taken. They are used to alert the reader to a potential risk and provide instructions on how to avoid it.

DANGER

A danger statement indicates a potential hazard that could result in serious injury or death if appropriate precautions are not taken. They are used to alert the reader to a potential risk that is critical and requires immediate attention to prevent harm. It may provide instructions on how to avoid the hazard or recommend seeking professional assistance.

Safety Precautions

CAUTION

- Follow all applicable local and national electrical codes and regulations. While a licensed electrician is not required, the installer should be familiar with Class 2 low-voltage wiring practices.
- Do not install or service the device while it is connected to an X-PoE switch.
- Use only with X-PoE switches or ports. The XPD-T2P is not compatible with traditional PoE sources.
- Do not connect external power supplies to output terminals.
- Ensure all wiring is de-energized before connecting or disconnecting any terminals.
- Ensure all wiring connections are secure and properly terminated.
- This equipment is not suitable for use in locations where children are likely to be present.

NOTE

- Do not exceed the rated output power for any channel.
- For use in dry locations only. If used in wet locations, a waterproof kit (sold separately) must be installed.

PRODUCT OVERVIEW

The XPD-T2P is a passive, Class 2 X-PoE powered device that converts RJ45 input power to wire terminals for direct DC output. It provides up to 65W per channel at 57VDC total output power for connected loads. The device includes signature resistors that allow the connected X-PoE switch to detect the unit and automatically determine the appropriate power level to supply. The XPD-T2P is designed as a panel-mount device for installation within lighting fixtures.

Key features:

- Dual-channel outputs supporting up to 65W per channel at 57VDC
- X-PoE Class 2 input for power delivery and device detection via signature resistors
- Panel-mount design for integration with lighting fixtures
- Durable construction with wire leads for direct connection

ORDERING INFORMATION

XPDs

Part Number	Description
XPD-T2P	Standard XPD-T2P Module

Accessories

Part Number	Description
XPD-T2P-WPKIT	Waterproofing Kit

See the XPD Specification Table for full specification and class information.

INSTALLATION

Parts List

Before getting started with the installation process, it's important to make sure all the necessary components are included. Here's what should be found inside the box:

- (1) XPD-T2P Module

Panel-Mount Installation

> **NOTE**
> The hardware and devices shown in these instructions are meant for guidance purposes and may not accurately represent the specific device or environment you're installing into.

Perform the following steps to install the device on a surface:

1. Review all cautions and warnings to ensure safe installation practices are followed.
2. Select a flat surface on the lighting fixture or panel where the XPD-T2P will be mounted. The fixture must include a 20.7 mm (0.81 in) diameter hole for proper mounting of the device.
3. Insert the device through the opening from the interior side of the fixture or panel.
4. Place the provided gasket between the device flange and the panel surface to ensure a tight, sealed fit.

5. Thread the retaining nut onto the front of the device and tighten by hand until snug. Do not overtighten.

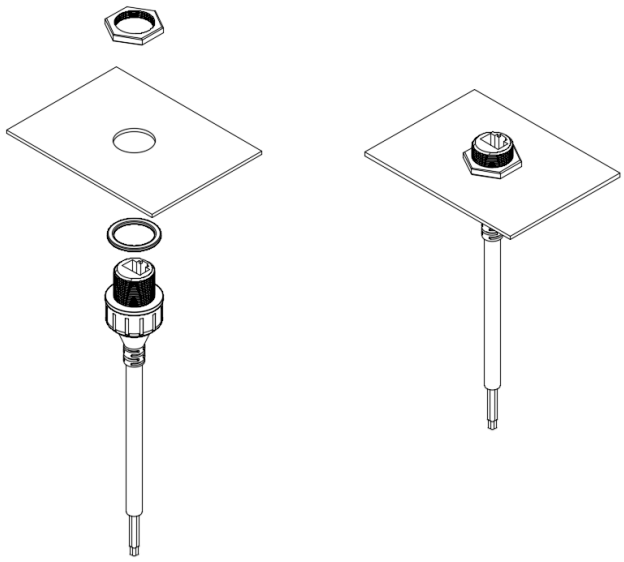


Fig. 1 — Attaching to a Lighting Fixture

> **NOTE**
> Ensure the gasket is properly seated to maintain enclosure integrity and prevent moisture ingress.

Waterproof Kit

For installations in wet or outdoor environments, a waterproof kit must be used to maintain proper ingress protection.

> **NOTE**
> The waterproof kit (XPD-T2P-WPKIT) is sold separately and should be installed to achieve rated protection.

1. Review all cautions and warnings to ensure safe installation practices are followed.
2. Slide the compression nut over the RJ45 connector first.
3. Wrap the sealing gland around the cable jacket just behind the connector.
4. Insert the O-ring into the front of the waterproof kit body, then slide the body over the RJ45 connector and connect the RJ45 plug to the XPD-T2P port.
5. Thread the body onto the XPD-T2P and hand-tighten until secure.
6. Slide the sealing gland into the back of the waterproof kit body to ensure proper positioning and compression.

7. Finally, thread the compression nut onto the body and tighten to compress the sealing gland, ensuring a watertight seal.

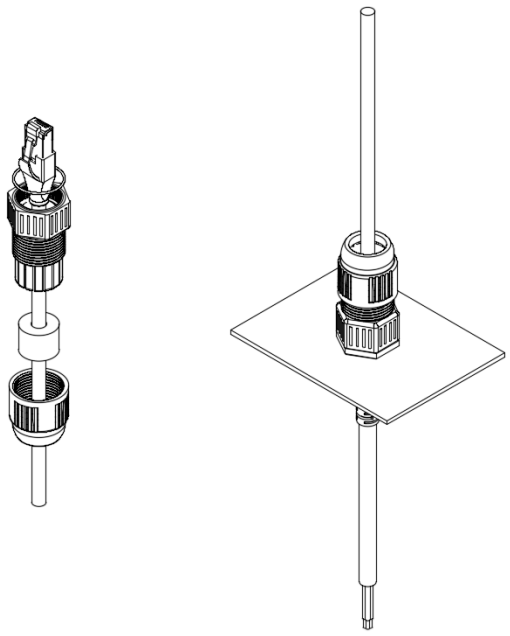


Fig. 2 — Attaching the Waterproof Kit

Output Wiring

Perform the following steps to wire the output to a light fixture:

1. Review all cautions and warnings to ensure safe wiring practices are followed.
2. Connect the low-voltage lighting leads to the CH1 and CH2 wire leads extending from the XPD-T2P.
3. Ensure correct polarity for each output connection (V+ to V+, V– to V–).

Wire Leads

Output	Positive (+)	Negative (-)
Channel 1 Output	Red (+)	White (-)
Channel 2 Output	Yellow (+)	Blue (-)

Input Wiring

Perform the following steps to wire the input to the XPD unit:

1. Review all cautions and warnings to ensure safe wiring practices are followed.
2. Connect an Ethernet cable from an X-PoE switch to the RJ45 input port on the unit.
3. If the X-PoE port has not yet been configured, the device will power on at default output levels once connected.

> **CAUTION**
> When connecting to a live X-PoE switch, complete all output wiring before plugging in the input connection.

INITIAL SETUP

The XPD unit itself does not require configuration. Configure the associated X-PoE port using the Channel Configuration and Load Profiling guides.

RELATED INFORMATION

Basic Troubleshooting

Basic troubleshooting can be performed by observing the port status LEDs on the X-PoE switch. Refer to the Port Status LED Table in the X-PoE switch installation guide for detailed diagnostic information.

Technical Support

If you experience any issues during installation or operation of this product, contact our technical-support team via email at support@luum.io. Please provide a detailed description of the issue, including any error messages or other relevant information.

Warranty

All Luum.io lighting products and controls come with a 5-year parts warranty. We warrant that our products will be free from defects in material and workmanship for a 5-year period from the date of purchase. Defective products under warranty will be replaced with an equal or higher-quality product.

If you experience any issues during the warranty period, we will repair or replace the product at no charge. To initiate a warranty claim, contact our customer-service team at support@luum.io. For additional support options, visit luum.io.

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Document Feedback

While we have taken great care to ensure the accuracy and completeness of this document, we welcome your feedback and suggestions. If you notice any errors or omissions, or feel a topic could benefit from further explanation, please email your feedback to support@luum.io.

Revision History

Date	Revision	Notes
11/11/2025	A	Initial XPD-T2P install guide release
6/15/2026	B	Port to PDF

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