Installation Guide

GV-POEX0111 Gigabit Waterproof PoE Extender

Packing List

When using this product for the first time, carefully open the packing box. The packing box should contain the following items:

- ➢ GV-POEX0111
- ➢ Waterproof Connector x 2
- ➢ Installation Guide
- ★ Ships locked to the fuselage

⚠ **Note:** Precision devices are built into the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the transportation process, please inform us, and we will give you a proper solution as soon as possible.

Chapter 1 Product Introduction

1.1 Product Overview

GV-POEX0111 is a gigabit waterproof PoE extender, which provides two 10/100/1000 Mbps RJ-45 ports. The input port is connected to the PSE device, and the output port is connected to the PD device. No configuration is needed; plug and play.

Chapter 2 Product Appearance Description

2.1 Front Panel

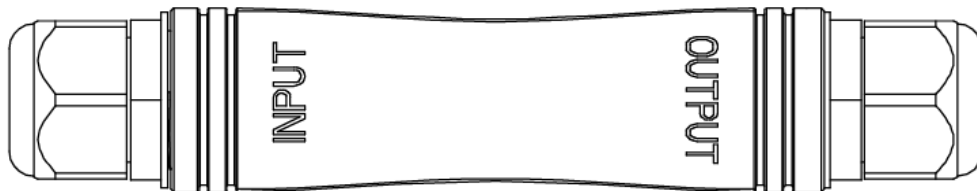The front side consists of input and output ports, as shown in the figure below:
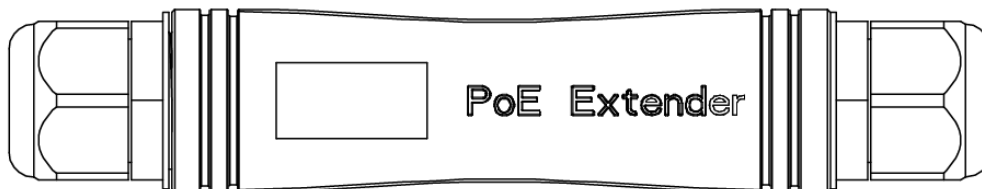

Figure 2-1 GV-POEX0111 front view

2.2 Back Panel

Figure 2-2 GV-POEX0111 back view
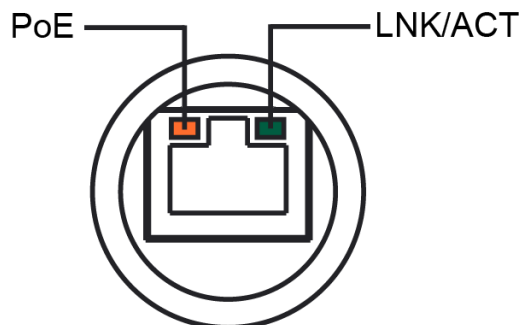
2.3 Left Panel

Figure 2-3 GV-POEX0111 left-side view

Chapter 3 User Guide

The purpose of this section is to help users properly install and safely use this device.

3.1 Notes on Installation and Use

⚠ **Precautions:** To avoid equipment damage and personal injury caused by improper use, please follow the following precautions:

➢ Waterproof joint nuts and joints must be tightened, otherwise water will damage the machine.

➢ The equipment should work within the temperature and humidity range permitted by the technical indicators.

➢ Please use with PoE devices conforming to IEEE 802.3af/at standards.

➢ Please do not install the equipment in a severe vibration environment.

➢ In case of failure, do not open the case without authorization, and contact professional maintenance.

3.2 Application Schematic

Note the direction of INPUT and OUTPUT in the GV-POEX0111 application schematic.

➢ When using a single extender, connect the INPUT port to the PoE switch and the OUTPUT port to the PD device. This setup can transmit up to 200 m with any switch or single-port PoE adapter compatible with IEEE 802.3af/at, and up to 400 m with GV-APOE switches in CCTV mode.

➢ When using two extenders together, connect the INPUT port of one extender to the PoE switch, the OUTPUT port of that extender to the INPUT port of the second extender, and the OUTPUT port of the second extender to the PD device. This setup can transmit up to 330 m with any switch or single-port PoE adapter compatible with IEEE 802.3af/at, and up to 600 m with GV-APOE switches in CCTV mode.

➢ When using three extenders together, connect the INPUT port of one extender to the PoE switch, the OUTPUT port of that extender to the INPUT port of the second extender, the OUTPUT port of the second extender to the INPUT port of the third extender, and the OUTPUT port of the third extender to the PD device. This setup can transmit up to 460 m with any switch or single-port PoE adapter compatible with IEEE 802.3af/at, and up to 800 m with GV-APOE switches in CCTV mode.

⚠ Up to three extenders are connected, with the maximum PoE power reaching the end being 10.02 W with any switch or single-port PoE adapter compatible with IEEE 802.3af/at, and 5.52 W with GV-APOE switches in CCTV mode, using Cat 5e cable.
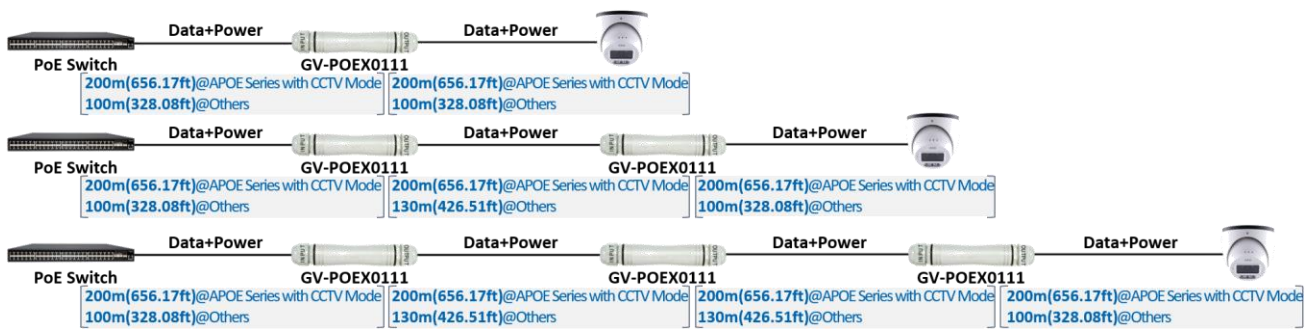
Figure 3-1 GV-POEX0111 application schematic

Note:

1. We do not recommend connecting other GV or third-party PoE extenders in series with the GV-POEX0111.

2. This figure, based on using UTP Cat 5e or Cat 6 cable as an example, shows that the maximum distance from the switch port to the terminal PD is 800 m. At this distance, the maximum power delivered to the PD is 5.52 W for Cat 5e, with higher power available for higher levels of Cat cables. The front-end device (PoE switch) and end device (IP camera) in the application must both support the transmission distance and the implied rates based on the PoE switch type specified in the topology diagram.