ALFA
N E T W O R K

To Infinity and Beyond

APS104G-EX

60W Ultra PoE input, 4-Port 802.3af/at Output Extension

Gigabit PoE Extender Switch

User Guide

Package Contents
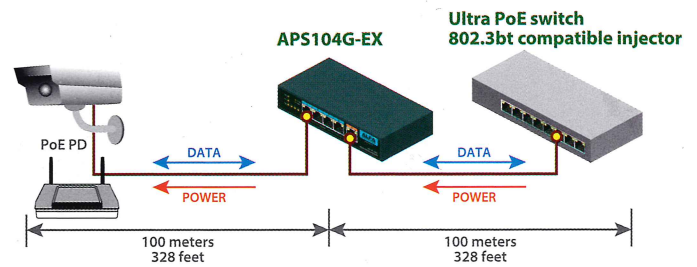
Check the following contents in product package:

- PoE extender switch x 1

- User's manual (this file) x 1

- Rubber foot x 4

If any part is lost or damaged, please contact our distributor immediately.
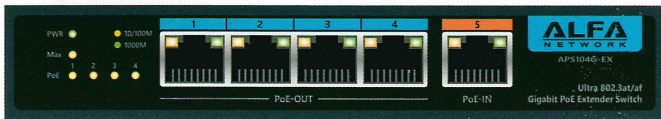
1. Introduction

Thank you for choosing APS104G-EX PoE extender switch, APS104G-EX is a 5-Port 10/100/1000Mbps auto-negotiation PoE switch. Port5 is PD port, accepting 802.3bt 60W ultra PoE input, ports(port1- 4) PoE-OUT are 802.3af/at compliant, feeding Max. 15.4/30watt to connected device.

With PoE input, APS104G-EX is capable of adding up to 100-meter data + power extensions in the PoE network. With outstanding performance and built quality, the APS104G-EX PoE extender switch is an ideal choice for saving the cabling cost and expanding existing PoE network coverage in a most efficient manner.

PoE PD — DATA — POWER — APS104G-EX — DATA — POWER — Ultra PoE switch 802.3bt compatible injector

100 meters 328 feet — 100 meters 328 feet

1

2. Overview

2.1 Front Panel

2.1.1 LED Indicators

PoE-IN: port 5

LED Indicator	Color	Function
10/100M	Orange	**Off**: No device is connected to the corresponding port. **ON** (solid): indicates the port is running on 10/100Mbps **Blink**: the port is sending or receiving traffic
1000M	Green	**Off**: No device is connected to the port. **ON** (solid): indicates the port is running on 1000Mbps **Blink**: the port is sending or receiving traffic

PoE-OUT: port 1 – port 4

LED Indicator	Color	Function
10/100M	Orange	**Off**: no device is connected to the port. **ON** (solid): indicates the port is running on 10/100Mbps **Flashing**: network data sending and receiving on this port
1000M	Green	**Off**: No device is connected to the port. **ON** (solid): indicates the port is running on 1000Mbps **Flashing**: the port is sending or receiving traffic

Functionality Indicator

LED Indicator	Color	Function
PWR	Green	**Off**: No Power supply. **ON**: PoE extender switch is powered ON.
PoE	Orange	**Off**: no PoE powered device (PD) connected. **ON** (solid): there is a PoE PD connected to port, PoE power is fed successfully. **Flashing**: abnormal PoE power supply.
Max	Orange	**Off**: indicate the usage of PoE power budget is less than 80%. **Light**: indicate the usage of PoE power budget is over 80%, No sufficient power may be supplied if additional PD are connected. **Blink**: indicate the usage of PoE power budget is over 100%.

🛈 **NOTE** Max. LED indicator only functions when using 802.3bt PoE input.

2.2. Rear Panel

The rear panel of the PoE extender switch indicates a DC inlet power socket.

🛈 **NOTE** APS104G-EX supports DC power supply (48 – 55V DC), please contact our distributor for this optional purchase.

3. Product Installation

3.1. Precaution before Installation

Find a flat horizontal surface — such as a table, desk or shelf.

Make sure the selected location is:

- No sunlight to it or near a heater or heating vent.
- Not cluttered or crowded. A least 2 inches (5 cm) of clear space on all sides is suggested to be reserved for switch installation.
- Well ventilated (especially if it is placed in a chassis).
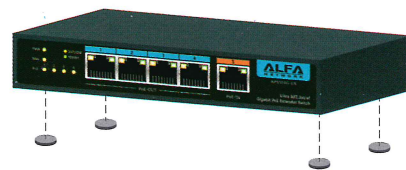
🛈 **NOTE**
- Do not place the switch near water or any damp area. Prevent water or moisture from entering the switch chassis.
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall;
- Make sure that the operating voltage is the same one labeled on the switch.
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.
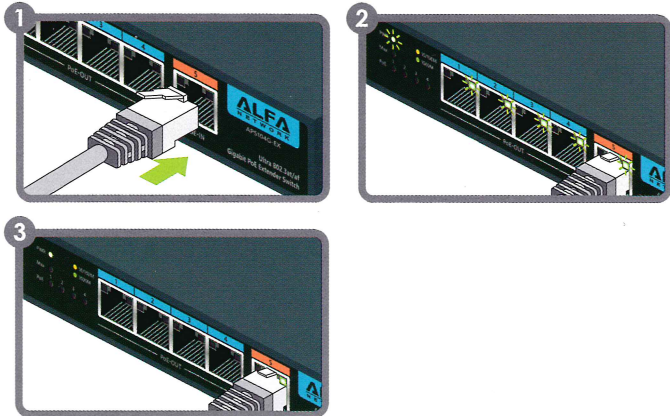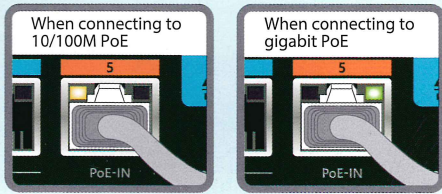
3.2 Powering on the PoE Extender Switch

● PoE powered

Step 1: Connect a Cat.5e/6 UTP cable from 802.3bt compliant Power Source Equipment (PSE),such as ultra PoE switch, ultra PoE injector to port 5 "**PoE-IN**" port.

Step 2: When plugging in, all gigabit LED indicator (green) will flash once, then go off. After device initialization, "**PWR**" LED on front panel and network speed (10/100M or gigabit) LED on port 5 will be ON.
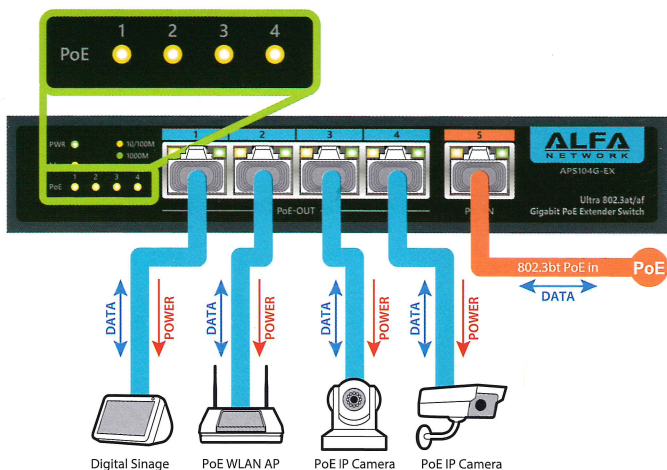

> ⚠ **NOTE**
> When connecting to 10/100M PoE
> When connecting to gigabit PoE

● DC Adapter Powered (Optional)

The PoE extender switch supports 48V-55V DC input as power source.
Powering on the switch, it will initialize and its LED indicators will respond as follows:

- When plugging in DC adapter, the PWR LED indicator will light up.
- All gigabit LED indicator (green) will flash once, then go off.

After device initialization, "**PWR**" LED on front panel will be ON.
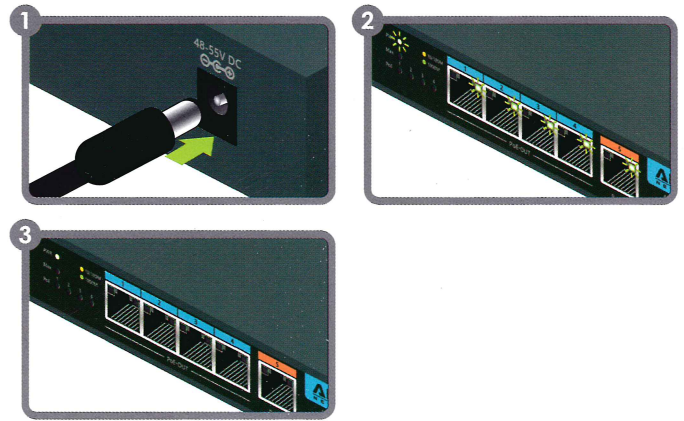
4 Feeding Power to 802.3af/at PoE Compatible Device (PD - Powered Device)

Step 1: Connect Cat.5e/6 cable to remote 802.3af/at compliant Powered Device (PD) from port 1 to port 4 on the PoE extender switch.

Power+Data
Power+Data
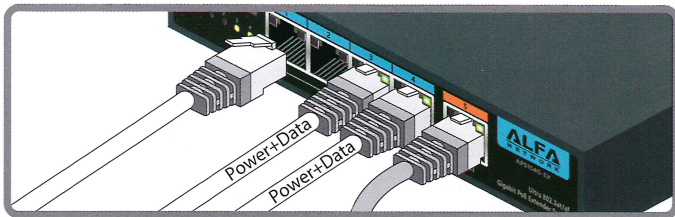
Step 2: The "PoE" LED will be ON after power is fed to connected device.

Digital Sinage   PoE WLAN AP   PoE IP Camera   PoE IP Camera

> ⚠ **NOTE**
> 1. For PoE power output, APS104G-EX supports standard PoE (IEEE 802.3af, and 802.3at) output.
> 2. Never connect any non-standard PoE device to PoE-OUT ports on PoE extender switch, there will be no power fed to connected device, and communications cannot be made. If remote device is not IEEE 802.3af/at PoE compatible,the PoE LED indicator will not lit, and power is not fed to device.
> 3. DO NOT connect any PoE power source equipment (PSE) to port 1 to port 4 on PoE extender switch; it may damage device permanently.
> 4. PoE Max. LED indicator will be turned ON when overall power consumption reaches 80% (when using 802.3bt PoE input).

For more product information, please visit our website for latest product news, and updates.

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