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## Fanvil PN8

# Fanvil 8-Port 2-Wire PoE Switch

## MODEL: PN8 USER MANUAL

### 1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Fanvil 8-Port 2-Wire PoE Switch (Model PN8). Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

### 2. Product Overview

The Fanvil PN8 is an 8-port 2-wire Power over Ethernet (PoE) switch designed to transmit both power and data over existing 2-wire cables. This unique capability simplifies installation, especially in environments where traditional Ethernet cabling is not feasible or cost-effective. It supports up to 8 PoE-enabled devices and can transmit data and power over distances up to 300 meters.

#### 2.1 Key Features

- 8 PoE ports for data and power transmission.
- Supports power and data over 2-wire connections.
- Long transmission distance of up to 300 meters.
- User-friendly setup with no complex configuration required.

#### 2.2 Device Layout



**Figure 1:** Front view of the Fanvil PN8 switch, showing 8 PLC ports, a WAN port, ON/OFF switch, and LED indicators for Network Reset and Power.



Figure 2: Angled view of the Fanvil PN8 switch, highlighting the side ventilation and port layout.

## 2.3 LED Indicators

- **Network Reset (Green LED):** Indicates network activity or status. A steady light typically means a stable connection, while blinking indicates data transmission.
- **Power (Red LED):** Illuminates when the device is powered on and receiving electrical current.

## 3. Setup Instructions

### 3.1 Package Contents

Before installation, please verify that all items are present in the package:

- Fanvil 8-Port 2-Wire PoE Switch (PN8)
- Power Adapter
- User Manual (this document)
- Mounting Accessories (if included)

### 3.2 Connecting the Switch

1. **Power Connection:** Connect the provided power adapter to the power input port on the switch and then plug it into a standard electrical outlet (100-240V AC). Ensure the ON/OFF switch is in the OFF position before connecting power.
2. **WAN Connection:** Connect your main network router or modem to the WAN port on the Fanvil PN8 switch using a standard Ethernet cable.
3. **PoE Device Connection:** Connect your 2-wire PoE-enabled devices (e.g., IP phones, cameras) to any of the 8 PLC ports on the switch. The switch will automatically detect and provide power and data to these devices.
4. **Power On:** Flip the ON/OFF switch to the ON position. The Power LED should illuminate, indicating the switch is operational.

## 4. Operating the Switch

Once connected, the Fanvil PN8 switch operates automatically. It provides power and data to connected PoE devices without requiring additional configuration. The LED indicators provide visual feedback on the device's status.

### 4.1 Powering On/Off

- To power on the switch, ensure the power adapter is connected and flip the ON/OFF switch to the 'ON' position. The red Power LED will light up.
- To power off the switch, flip the ON/OFF switch to the 'OFF' position. The red Power LED will turn off.

## 5. Maintenance

To ensure optimal performance and longevity of your Fanvil PN8 switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners. Ensure the device is powered off before cleaning.
- **Ventilation:** Ensure the switch is placed in a well-ventilated area. Do not block the ventilation openings on the sides of the device.
- **Environment:** Avoid exposing the switch to extreme temperatures, high humidity, or direct sunlight.

## 6. Troubleshooting

If you encounter issues with your Fanvil PN8 switch, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution
No power (Power LED off)	Power adapter not connected or faulty; ON/OFF switch is off.	Check power adapter connection and outlet. Ensure ON/OFF switch is in the 'ON' position.
No network connectivity	WAN cable disconnected; faulty cable; upstream network issue.	Verify WAN cable connection. Test with a different cable. Check your router/modem.
PoE device not receiving power/data	Device not PoE-compatible; faulty 2-wire cable; device drawing too much power.	Ensure device is PoE-compatible. Test with a different 2-wire cable. Check device power requirements.
Slow network speed	Cable quality; network congestion; device limitations.	Ensure high-quality 2-wire cables are used. Reduce network traffic if possible.

## 7. Technical Specifications

Specification	Value
Model Number	PN8
Product Type	2-Wire PoE Switch
Ports	8
Input Voltage	100~240V AC
Operating Voltage	28 Volts
Long Transmission Distance	300 meters
Product Dimensions	5.91 x 78.74 x 5.91 inches
Item Weight	2.49 pounds
Batteries Required	1 AAAA batteries (included)

Specification	Value
ASIN	B0DP5HXVQJ
UPC	6937295605105
Date First Available	November 27, 2024

## 8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Fanvil website. Contact their customer service for assistance with product issues, repairs, or further inquiries.