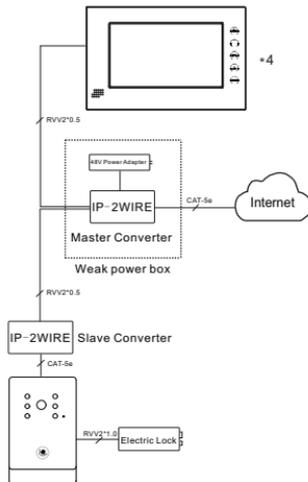


# Quick Start Guide

## 1. Field Application

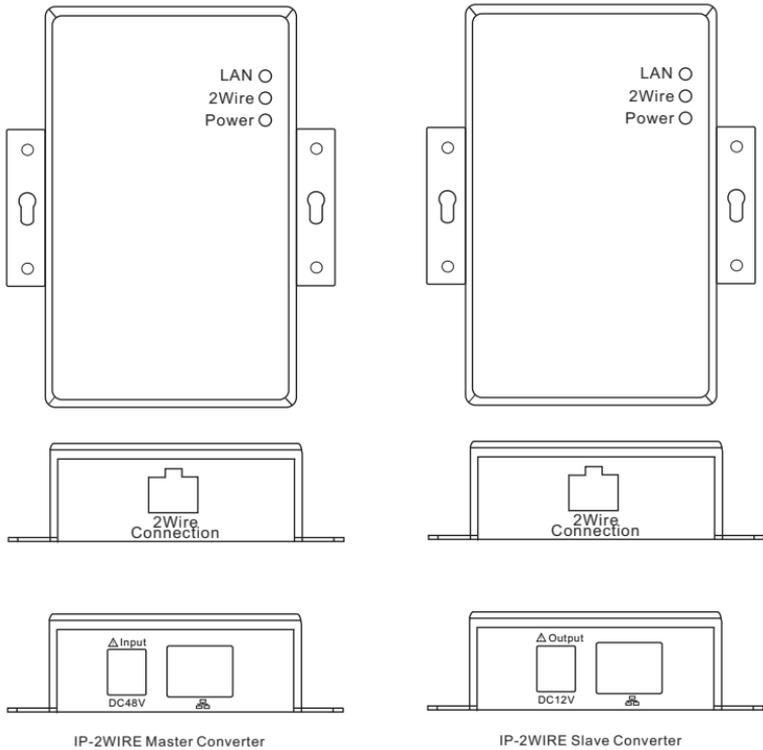


IP-2WIRE Converters are used to extend the Ethernet IP signals via 2Wire cable in the existing 2Wire network of building.

In the field application, IP-2WIRE Converters could be applied to connection, distribution and conversion of signals for the IP devices(Flat camera, Indoor Monitor, Outdoor panel, etc.) via the 2Wire cable with 128bit AES and guaranteed QoS for loss sensitive application. In addition, the system can connect to the Internet via IP-2WIRE Master Converter.

This system is suited for transformation project of old buildings which can remain 2Wire cables. It can save troubles of cable wiring and infrastructures rebuilding as well as reduce the cost of projects.

## 2. Connection Diagram



## 3. Installation Steps

### Step 1. Hardware Check and Preparation

- Please check if there is any product defect.
- Prepare :
  - 1) Network cable
  - 2) 2Wire cable
  - 3) 48VDC Power supply to IP-2WIRE Master Converter.( Please check the cable length, spec. and connection status)
  - 4) 2.0/2.5mm Slot Screw Driver.

## Step 2. Installation

- In general, IP-2Wire Master Converter is set in weak power box. The LAN interface can be connected to the Internet, and another interface is connected to 2-wire system.
- Outdoor panel connects to two-wire system through IP-2Wire Slave Converter which can support up to 4 indoor monitors.
- Connect a 48V DC power supply into IP-2WIRE Master Converter to provide power to the entire system, including the outdoor panel and indoor monitor.
- All devices are in 2Wire Link Mode. They will find each other and establish basic level encrypted communication.

## 4. LED Indicator

To show the working status of the device, the converter provides three LED signals:

- Power : Red LED is always on.
- 2Wire Connection: If green LED is always on, it means 2Wire Link Mode. If the LED flashes slowly, it means 2Wire Unlink Mode.
- LAN : Green LED is the Ethernet connection indicator. When the module is transmitting or receiving through Ethernet, the LED toggles with 250ms period.

## **Power over Ethernet (POE) Function**

IP-2WIRE Master Converter supports IEEE 802.3af, 12.95W PD.

IP-2WIRE Slave Converter supports IEEE 802.3at-compliant PSE.

## **Installation Warnings**

Do not use the converter near the harsh (temperature, humidity, cabling quality) installation site.

If the converter is flooded with water or other liquid materials, please turn off the power source, disconnect all the cables of the converter and contact DNAKE technical team for after service.

Do not use converter under the condition of temperature over 50°C for converter's operation performance and lifetime.