# Wi-Tek PoE Extender

**WI-Tek**
Communication Solution

IEEE802.3af and IEEE802.3at

**WI-PE31E/WI-PE51E/WI-PE31G/**
**WI-PE51G/WI-PE41E-O**

www.wireless-tek.com

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## 1. Package Content

### 1.1 WI-PE31G as an example
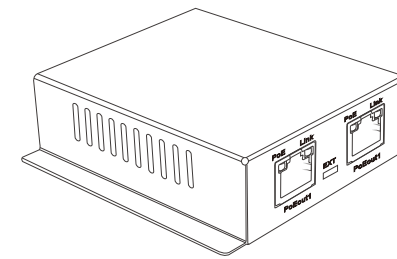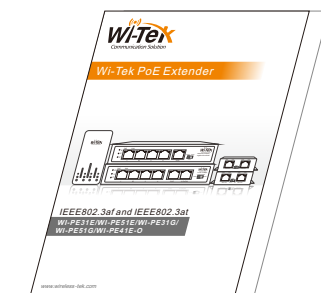
PoE Extender X1

Guide Book X1

Wi-Tek PoE Extender

IEEE802.3af and IEEE802.3at

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## 2. Hardware Overview

### 2.1 Indoor PoE Extender (WI-PE31 E / WI-PE31G)

on  Pwr
off  Link

PoE    Link

PoE in          DC in

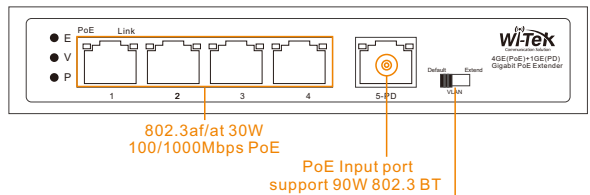PoE Input          DC Input 48-55V
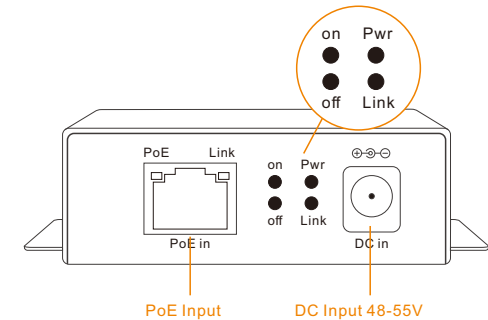
**Extend DIP Switch**
on: The transmission of PoE output ports can be up to 250m. but the rate is limited to 10Mbps
off: The transmission PoE output ports can be up to 100m with 100Mbps

PoE    Link          PoE    Link

EXT.
on    off    on    off
PoE Out1          PoE Out1

PoE Out 1          PoE Out 2

#### LED Indicators

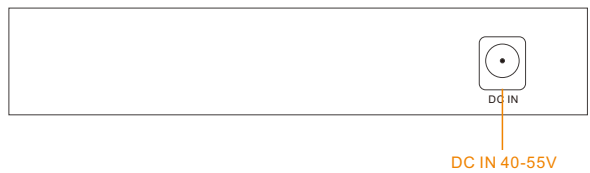| | |
|---|---|
| PWR (Power indicator) | Off: the device is power off or failed<br>On: the device power on is normal |
| Link Indicator | Off: ports link down<br>On: ports link up<br>Blinking: data on TX/RX |
| PoE Indicator | Off: PoE not working<br>On: PoE working |
| VLAN | Off: VLAN mode is disable.<br>On: VLAN mode is enable. |
| Extend | Off: Extend mode is disable<br>On: Extend mode is enable |

### 2.2 Indoor PoE Extender (Take WI-PE51G as an example)

PoE    Link

802.3af/at 30W
100/1000Mbps PoE
          PoE Input port
          support 90W 802.3 BT

Default: The transmission PoE output ports can be up to 100m with 100Mbps
Extend: The transmission of PoE output ports can be up to 250m, but the rate is limited to 10Mbps.
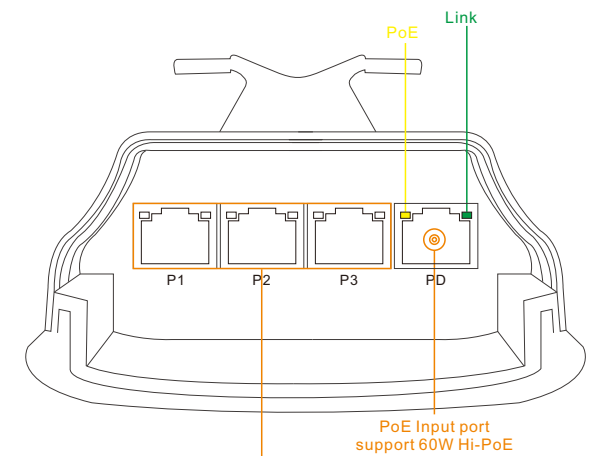VLAN: All downlink ports are isolated from each other, but can communicate with uplink ports.

Default  Extend
VLAN

DC in          DC IN 40-55V

#### LED Indicators

| | |
|---|---|
| PWR (Power indicator) | Off: the device is power off or failed<br>On: the device power on is normal |
| Link Indicator | Off: ports link down<br>On: ports link up<br>Blinking: data on TX/RX |
| PoE Indicator | Off: PoE not working<br>On: PoE working |
| VLAN | Off: VLAN mode is disable.<br>On: VLAN mode is enable. |
| Extend | Off: Extend mode is disable<br>On: Extend mode is enable |

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## 2.3 Outdoor PoE Extender

Green — The port data transmission is normal
Yellow — The port power is normal

PoE          Link

P1    P2    P3    PD

PoE Input port
support 60W Hi-PoE

Support 802.3af/at
30W 10/100Mbps PoE Output

#### LED Indicators

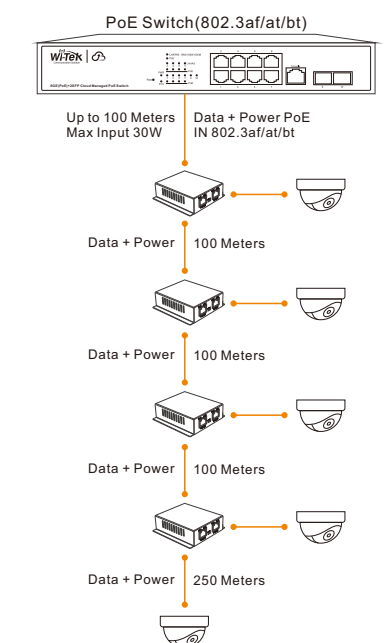| | |
|---|---|
| Link Indicator | Off: ports link down<br>On: ports link up<br>Blinking: data on TX/RX |
| PoE Indicator | Off: PoE not working<br>On: PoE working |
| P1/P2/P3/PD | Green: data on TX/RX<br>Yellow: the PoE is normal |

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## 3. Network Application

### 3.1 Networking Solution (Illustration for WI-PE31E)

**Step 1:** Connect the first PoE extender to the PoE port of switch which is compatible with 802.3af/at/bt. (Or connect a DC adapter to power up the first PoE extender)

**Step 2:** Connect the second PoE extender to the first PoE extender via PoE input port.

**Step 3:** Connect an IP camera to the second PoE extender via PoE output port.

Note: Recommend no more than 4 units PoE extender in one network.

PoE Switch(802.3af/at/bt)

Up to 100 Meters    Data + Power PoE
Max input 30W          W 802.3af/at/bt

Data + Power    100 Meters

Data + Power    100 Meters

Data + Power    100 Meters

Data + Power    250 Meters

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## 4. Product Family

| Product | Speed | Interface | PoE Output Port | PoE Input Port | Application |
|---|---|---|---|---|---|
| WI-PE31E | 100Mbps | 3FE | 2 x 802.3af/at 30W | 1 x 802.3af/at 30W | Indoor |
| WI-PE31G | 1000Mbps | 3GE | 2 x 802.3af/at 30W | 1 x 802.3af/at 30W | Indoor |
| WI-PE51E | 100Mbps | 6FE | 4 x 802.3af/at | 1 x 60W Hi-PoE | Indoor |
| WI-PE51G | 1000Mbps | 5GE | 4 x 802.3af/at | 1 x 60W Hi-PoE | Indoor |
| WI-PE41E-O | 100Mbps | 4FE | 3 x 802.3af/at 30W | 1 x 60W Hi-PoE | Outdoor |
| WI-PE21E | 100Mbps | 2FE | 1 x 802.3af/at 30W | 1 x 802.3af/at 30W | Indoor |
| WI-PE21G | 1000Mbps | 2GE | 1 x 802.3af/at 30W | 1 x 802.3af/at 30W | Indoor |

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## Warranty Card

| | |
|---|---|
| Username | |
| Address | |
| Telephone No. | |
| Purchase Shop | |
| Purchase Address | |
| Product Model No. | |
| Purchase Time | |
| Serial No. | |
| Dealer Signature | |

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