

## Datasheet

# Economic 802.3af/at PoE Switch

WI-PS205H | WI-PS210H | WI-PS518GH | WI-PS526GH  
 WI-PS305GH | WI-PS308GH | WI-PS309GFH  
 WI-PS318GFH | WI-PS326GFH



## Overview

Wi-Tek's Economic 802.3af/at PoE Switch Series offers a choice of 4/8/16/24 ports, available in both 100Mbps and 1000Mbps speeds. Break free from PoE distance limitations! Wi-Tek provides a cost-effective PoE solution, empowering your CCTV, Access Point, and other IP-based devices up to 250m away. Most robust features like Extend Mode, PoE Watchdog Function, Port Isolation, provide a lot of value for basic networking needs, creating a versatile and reliable surveillance network to grow your business.

## Features

### PoE 250m Long Distance to Extend Network

DIP switch provides Extend Mode. All PoE ports can transmit data and power up to 250 meters. No further hardware or configuration is necessary, easy-to-use and cost-saving. Perfect for surveillance camera deployment in large areas.

### Smart PoE Watchdog to Reboot Camera Automatically

All PoE ports enable PoE watchdog function, which can detect and reboot the offline compliant PoE powered devices.

### Port Isolation to Prevent Broadcast Storm

With VLAN Mode, all PoE ports only can communicate with uplink ports. Avoid data leakage between each port and prevent broadcast storm from disabling network.

### Double Uplink to Eliminate the Bandwidth Limit

Uplink ports superficially resembles any other normal port on a switch or hub. Additionally, connecting the uplink port on one switch to the normal port on another switch can help expand the size of the network.

### DIP – Data Optimization

Default: The transmission distance of PoE port can be up to 100m with 100Mbps.

VLAN: Enable isolation between all downstream ports, while maintaining data communication with the upstream port, effectively preventing broadcast storms.

Extend: Extend the power supply and network transmission distance of PoE ports from the standard 100m to an impressive 250m, though with a reduced port rate of 10Mbps. Elevate your networking experience with enhanced flexibility and efficiency.

CCTV: Extend your network up to 250 meters long distance with VLAN function.

# Specifications



| Model                   | WI-PS205H                                             | WI-PS210H                                             | WI-PS518GH                                             | WI-PS526GH                                             |
|-------------------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Hardware Specifications |                                                       |                                                       |                                                        |                                                        |
| Hardware Version        | V3                                                    | V3                                                    | V1                                                     | V1                                                     |
| Interfaces              |                                                       |                                                       |                                                        |                                                        |
| Downlink Ports          | 4 * 100Mbps RJ45 PoE Ports                            | 8 * 100Mbps RJ45 PoE Ports                            | 16 * 100Mbps RJ45 PoE Ports                            | 24 * 100Mbps RJ45 PoE Ports                            |
| Uplink Ports            | 2 * 100Mbps RJ45 Ports                                | 2 * 100Mbps RJ45 Ports                                | 1 * 1000Mbps RJ45 Port<br>1 * 1000Mbps Combo Port      | 1 * 1000Mbps RJ45 Port<br>1 * 1000Mbps Combo Port      |
| PoE                     |                                                       |                                                       |                                                        |                                                        |
| PoE Port                | Port 1 – 4                                            | Port 1 – 8                                            | Port 1 – 16                                            | Port 1 – 24                                            |
| PoE Standard            | 802.3 af/at                                           |                                                       |                                                        |                                                        |
| PoE Pin Assignment      | 1/2(+), 3/6(–)                                        |                                                       |                                                        |                                                        |
| PoE Power               | 30W Max. for each port, 40W Max. for PoE power budget | 30W Max. for each port, 60W Max. for PoE power budget | 30W Max. for each port, 185W Max. for PoE power budget | 30W Max. for each port, 185W Max. for PoE power budget |
| Switch Property         |                                                       |                                                       |                                                        |                                                        |
| Standards and Protocols | IEEE 802.3, IEEE 802.3u, and IEEE 802.3x              |                                                       | IEEE 802.3, IEEE 802.3u, and IEEE 802.3x, IEEE 802.3z  |                                                        |
| Forwarding Mode         | Store and Forward                                     |                                                       |                                                        |                                                        |
| Switching Capacity      | 1.2 Gbps                                              | 2 Gbps                                                | 7.2 Gbps                                               | 8.8 Gbps                                               |
| Packet Forwarding Rate  | 0.89Mpps                                              | 1.49Mpps                                              | 5.36Mpps                                               | 6.55Mpps                                               |
| MAC Address Table       | 1k                                                    | 1k                                                    | 8k                                                     | 8k                                                     |
| Packet Buffer Memory    | 448 K bit                                             |                                                       | 4M bit                                                 |                                                        |
| Jumbo Frame             | 1536Bytes                                             |                                                       | 10 kB                                                  |                                                        |
| Power Supply            |                                                       |                                                       |                                                        |                                                        |
| Input Power             | 100–240 V AC 50/60 Hz 1.5A max                        | 100–240 V AC 50/60 Hz 2.5A max                        | 100–240 V AC 50/60 Hz 5A max                           | 100–240 V AC 50/60 Hz 5A max                           |
| Power Consumption       | Idle: 5W 100% Traffic Rate with PoE: 45 W             | Idle: 5 W 100% Traffic Rate with PoE: 65 W            | Idle: 15 W 100% Traffic Rate with PoE: 200 W           | Idle: 15 W 100% Traffic Rate with PoE: 200 W           |



| Model                      | WI-PS205H                                                                                   | WI-PS210H                                                                                  | WI-PS518GH                                                                                   | WI-PS526GH                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Physical Characteristics   |                                                                                             |                                                                                            |                                                                                              |                                                                                              |
| LED Indicators             | <b>Power</b><br>On: The device power on is normal<br>Off: The device is power off or failed | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed  | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed    | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed    |
|                            | <b>PoE</b><br>On: PoE is working<br>Off: PoE is not working                                 | <b>PoE</b><br>On: PoE is working<br>Off: PoE is not working                                | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                     | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                     |
|                            | <b>DATA</b><br>On: Port connected<br>Blinking: Data transmission<br>Off: Port disconnected  | <b>DATA</b><br>On: Port connected<br>Blinking: Data transmission<br>Off: Port disconnected | <b>DATA</b><br>Blinking: Data transmission is active and working                             | <b>DATA</b><br>Blinking: Data transmission is active and working                             |
|                            |                                                                                             |                                                                                            | <b>PoE Max</b><br>When total PoE output power > Power Budget * 80%, the LED light will be on | <b>PoE Max</b><br>When total PoE output power > Power Budget * 80%, the LED light will be on |
|                            |                                                                                             |                                                                                            | <b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down                                  | <b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down                                  |
|                            |                                                                                             | 18T<br>On: Port 18 link up<br>Off: Port 18 link down                                       | 18T<br>On: Port 18 link up<br>Off: Port 18 link down                                         |                                                                                              |
|                            |                                                                                             | <b>17T/17S</b><br>On: Port 17T/17S link up<br>Off: Port 17T/17S link down                  | <b>17T/17S</b><br>On: Port 17T/17S link up<br>Off: Port 17T/17S link down                    |                                                                                              |
|                            |                                                                                             |                                                                                            |                                                                                              | <b>25T</b><br>On: Port 25 link up<br>Off: Port 25 link down                                  |
|                            |                                                                                             |                                                                                            |                                                                                              | <b>26T/26S</b><br>On: Port 26T/26S link up<br>Off: Port 26T/26S link down                    |
| Fan Quantity               | Fanless                                                                                     |                                                                                            | 1                                                                                            |                                                                                              |
| Dimensions (W*D*H)         | 140x76x27 mm                                                                                | 168x94x32 mm                                                                               | 281x188x44 mm                                                                                |                                                                                              |
| Package Dimensions (W*D*H) | 194x160x48 mm                                                                               |                                                                                            | 380x235x80 mm                                                                                |                                                                                              |
| Weight                     | Net Weight: 0.31 kg                                                                         | Net Weight: 0.47 kg                                                                        | Net Weight: 1.75 kg                                                                          | Net Weight: 1.82 kg                                                                          |
|                            | Package Weight: 0.59 kg                                                                     | Package Weight: 0.75 kg                                                                    | Package Weight: 2.37 kg                                                                      | Package Weight: 2.45 kg                                                                      |
| Installation               | Desktop                                                                                     |                                                                                            | Desktop、 Rack-mount                                                                          |                                                                                              |
| Button                     |                                                                                             |                                                                                            |                                                                                              |                                                                                              |
| DIP Switch                 | Default/CCTV<br>(CCTV=250m Extend mode + VLAN mode)                                         | Default/CCTV<br>(CCTV=250m Extend mode + VLAN mode)                                        | Default/VLAN/CCTV<br>(CCTV=250m Extend mode + VLAN mode)                                     |                                                                                              |



| Model                 |                | WI-PS205H                                                      | WI-PS210H | WI-PS518GH | WI-PS526GH |
|-----------------------|----------------|----------------------------------------------------------------|-----------|------------|------------|
| Environmental         |                |                                                                |           |            |            |
| Reliability           | Surge Immunity | IEC 61000-4-5<br>Common mode ±4kV<br>Differential mode ±2kV    |           |            |            |
|                       | ESD Protection | IEC 61000-4-2<br>Contact discharge ±6kV<br>Air discharge ± 8kV |           |            |            |
| Operating Temperature |                | -10°C to 55°C(14°F to 131°F)                                   |           |            |            |
| Operating Humidity    |                | 10%~90% RH no condensation                                     |           |            |            |
| Storage Temperature   |                | -40°C to 70°C(-40°F to 158°F)                                  |           |            |            |
| Storage Humidity      |                | 5%~90% RH no condensation                                      |           |            |            |
| Others                |                |                                                                |           |            |            |
| Certification         |                | CE, FCC, RoHS, UKCA, RCM                                       |           |            |            |



| Model                   | WI-PS305GH                                                          | WI-PS308GH                                            | WI-PS309GFH                                           | WI-PS318GFH                                            | WI-PS326GFH                                            |
|-------------------------|---------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Hardware Specifications |                                                                     |                                                       |                                                       |                                                        |                                                        |
| Hardware Version        | V1                                                                  | V2                                                    | V1                                                    | V1                                                     | V1                                                     |
| Interfaces              |                                                                     |                                                       |                                                       |                                                        |                                                        |
| Downlink Ports          | 4 1000Mbps RJ45 PoE Ports                                           | 8 1000Mbps RJ45 PoE Ports                             | 8 1000Mbps RJ45 PoE Ports                             | 16 1000Mbps RJ45 PoE Ports                             | 24 1000Mbps RJ45 PoE Ports                             |
| Uplink Ports            | 1 1000Mbps RJ45 Port                                                | 2 1000Mbps RJ45 Ports                                 | 1 1000Mbps RJ45 Ports<br>1 1000Mbps SFP Port          | 2 1000Mbps Combo Ports                                 | 2 1000Mbps SFP Slots                                   |
| PoE                     |                                                                     |                                                       |                                                       |                                                        |                                                        |
| PoE Port                | Port 1 – 4                                                          | Port 1 – 8                                            | Port 1 – 8                                            | Port 1 – 16                                            | Port 1 – 24                                            |
| PoE Standard            | 802.3 af/at                                                         |                                                       |                                                       |                                                        |                                                        |
| PoE Pin Assignment      | 1/2(+), 3/6(–)                                                      |                                                       |                                                       |                                                        |                                                        |
| PoE Power               | 30W Max. for each port, 40W Max. for PoE power budget               | 30W Max. for each port, 60W Max. for PoE power budget | 30W Max. for each port, 60W Max. for PoE power budget | 30W Max. for each port, 185W Max. for PoE power budget | 30W Max. for each port, 250W Max. for PoE power budget |
| Switch Property         |                                                                     |                                                       |                                                       |                                                        |                                                        |
| Standards and Protocols | IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z |                                                       |                                                       |                                                        |                                                        |
| Forwarding Mode         | Store and Forward                                                   |                                                       |                                                       |                                                        |                                                        |
| Switching Capacity      | 10 Gbps                                                             | 20 Gbps                                               | 20 Gbps                                               | 36 Gbps                                                | 52 Gbps                                                |
| Packet Forwarding Rate  | 7.44 Mpps                                                           | 14.88 Mpps                                            | 14.88 Mpps                                            | 26.78 Mpps                                             | 38.69 Mpps                                             |
| MAC Address Table       | 2k                                                                  | 4k                                                    |                                                       |                                                        | 8k                                                     |
| Packet Buffer Memory    | 1 Mbit                                                              | 2 Mbit                                                | 1.5 Mbit                                              | 4.1 Mbit                                               | 4.1 Mbit                                               |
| Jumbo Frame             | 10 kB                                                               |                                                       |                                                       |                                                        |                                                        |
| Power Supply            |                                                                     |                                                       |                                                       |                                                        |                                                        |
| Input Power             | 100–240 V AC<br>50/60 Hz 1.5A max                                   |                                                       |                                                       | 100–240 V AC<br>50/60 Hz 5A max                        | 100–240 V AC<br>50/60 Hz 5A max                        |
| Power Consumption       | Idle: 5 W 100% Traffic Rate with PoE: 45 W                          | Idle: 5 W 100% Traffic Rate with PoE: 65 W            | Idle: 5 W 100% Traffic Rate with PoE: 65 W            | Idle: 15 W 100% Traffic Rate with PoE: 200 W           | Idle: 30 W 100% Traffic Rate with PoE: 280 W           |

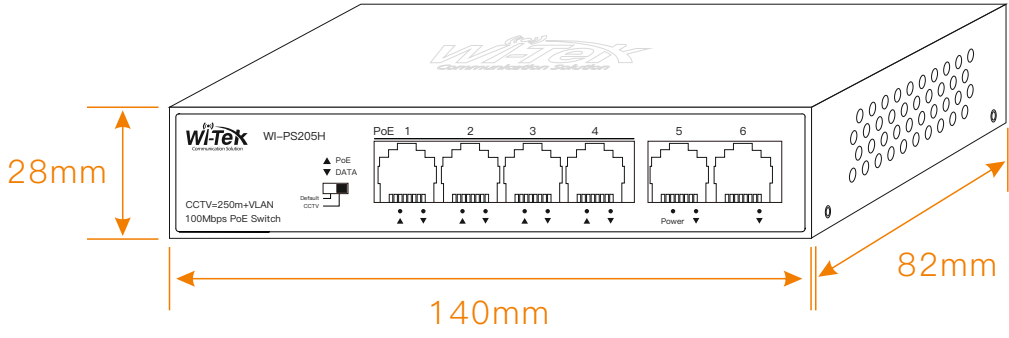


| Model                      |                | WI-PS305GH                                                                                  | WI-PS308GH                                                                                | WI-PS309GFH                                                                                 | WI-PS318GFH                                                                                                                                                     | WI-PS326GFH                                                                                                                                                     |
|----------------------------|----------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Characteristics   |                |                                                                                             |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| LED Indicators             |                | <b>Power</b><br>On: The device power on is normal<br>Off: The device is power off or failed | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed | <b>Power</b><br>On: The device power on is normal<br>Off: The device is power off or failed | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed                                                                       | <b>PWR</b><br>On: The device power on is normal<br>Off: The device is power off or failed                                                                       |
|                            |                | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                    | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                  | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                    | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                                                                                        | <b>PoE</b><br>On: PoE is working<br>Off: PoE not working                                                                                                        |
|                            |                | <b>DATA</b><br>Blinking: Data transmission is active and working                            | <b>DATA</b><br>Blinking: Data transmission is active and working                          | <b>DATA</b><br>Blinking: Data transmission is active and working                            | <b>DATA</b><br>Blinking: Data transmission is active and working                                                                                                | <b>DATA</b><br>Blinking: Data transmission is active and working                                                                                                |
|                            |                | <b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down                                 | <b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down                               | <b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down                                 | <b>PoE Max</b><br>When total PoE output power > Power Budget * 80%, the LED light will be ON<br><br><b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down | <b>PoE Max</b><br>When total PoE output power > Power Budget * 80%, the LED light will be ON<br><br><b>LNK/ACT</b><br>On: Data on TX/RX<br>Off: Ports link down |
| Fan Quantity               |                | Fanless                                                                                     |                                                                                           |                                                                                             | 1                                                                                                                                                               | 2                                                                                                                                                               |
| Dimensions (W*D*H)         |                | 140x82x28 mm                                                                                | 168x99x33 mm                                                                              | 168x99x33 mm                                                                                | 281x185x44 mm                                                                                                                                                   | 442x213x44 mm                                                                                                                                                   |
| Package Dimensions (W*D*H) |                | 192x165x60 mm                                                                               |                                                                                           |                                                                                             | 370x230x80 mm                                                                                                                                                   | 499x348x90 mm                                                                                                                                                   |
| Weight                     |                | Net Weight: 0.36 kg                                                                         | Net Weight: 0.52 kg                                                                       | Net Weight: 0.51 kg                                                                         | Net Weight: 1.84 kg                                                                                                                                             | Net Weight: 2.47 kg                                                                                                                                             |
|                            |                | Package Weight: 0.64 kg                                                                     | Package Weight: 0.81 kg                                                                   | Package Weight: 0.82 kg                                                                     | Package Weight: 2.48 kg                                                                                                                                         | Package Weight: 3.27 kg                                                                                                                                         |
| Installation               |                | Desktop                                                                                     |                                                                                           |                                                                                             | Desktop、 Rack–mount                                                                                                                                             |                                                                                                                                                                 |
| Button                     |                |                                                                                             |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| DIP Switch                 |                | Default/CCTV(CCTV=250m Extend mode + VLAN mode)                                             |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Environmental              |                |                                                                                             |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Reliability                | Surge Immunity | EC 61000–4–5<br>Common mode ±4kV<br>Differential mode ±2kV                                  |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
|                            | ESD Protection | IEC 61000–4–2<br>Contact discharge ±6kV<br>Air discharge ± 8kV                              |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Operating Temperature      |                | –10℃ to 55℃(14°F to 131°F)                                                                  |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Operating Humidity         |                | 10%~90% RH no condensation                                                                  |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Storage Temperature        |                | –40℃ to 70℃(–40°F to 158°F)                                                                 |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Storage Humidity           |                | 5%~90% RH no condensation                                                                   |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Others                     |                |                                                                                             |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |
| Certification              |                | CE, FCC, RoHS, UKCA, RCM                                                                    |                                                                                           |                                                                                             |                                                                                                                                                                 |                                                                                                                                                                 |

# Appearances and Dimensions

WI-PS205H

Dimensions (mm)



Front Panel

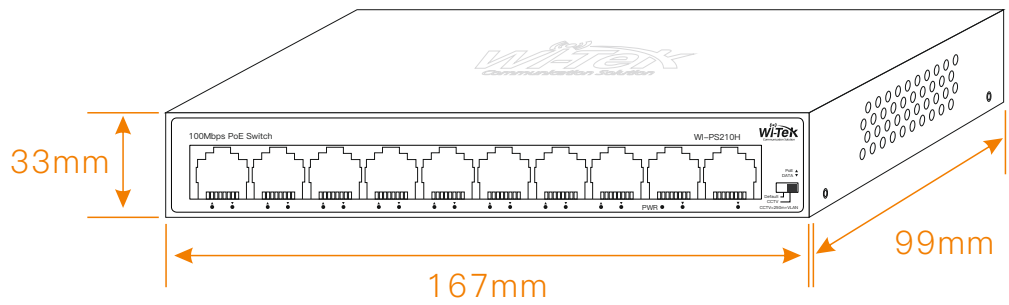
A detailed diagram of the front panel of the WI-PS205H. It shows the DIP switch, LED indicator, and the six RJ45 ports. The ports are grouped into two sets of four, labeled PoE 1-4 and PoE 5-6. The DIP switch is labeled 'Default DATA' and 'Default CCTV'. The LED indicator is labeled 'LED Indicator'. The RJ45 ports are labeled '2 \* 100Mbps RJ45 Uplink Ports' and '4 \* 100Mbps RJ45 PoE+ Ports'.

Rear Panel

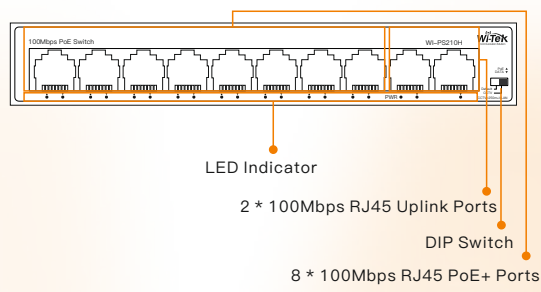
A detailed diagram of the rear panel of the WI-PS205H. It shows the AC power input port and the grounding terminal. The AC power input port is labeled '100-240V, 50/60Hz, 1.5Amax.'. The grounding terminal is labeled 'Grounding'.

WI-PS210H

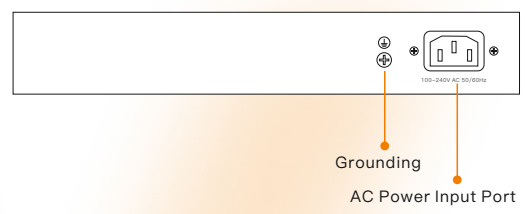
Dimensions (mm)



Front Panel



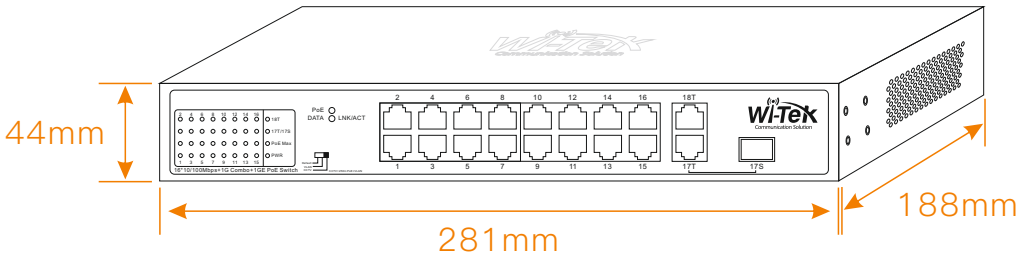
Rear Panel



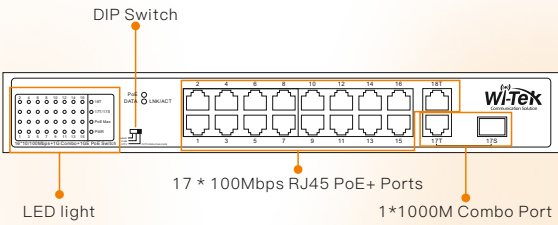


WI-PS518GH

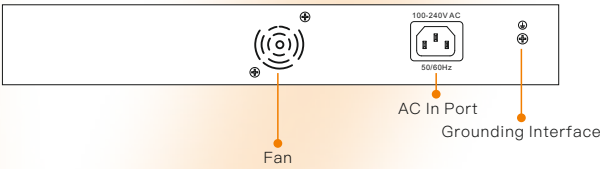
Dimensions (mm)



Front Panel

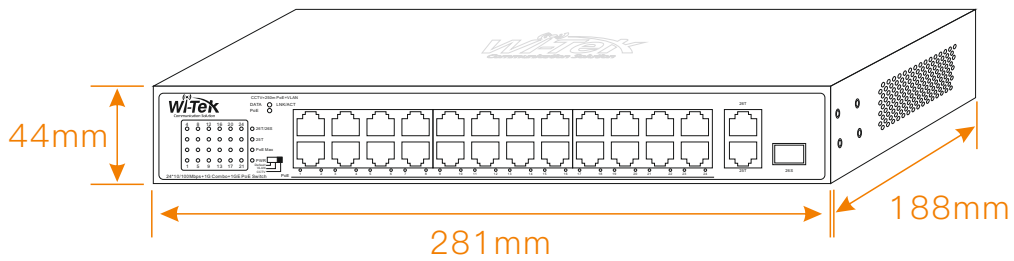


Rear Panel

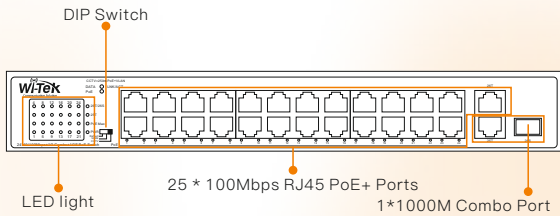


WI-PS526GH

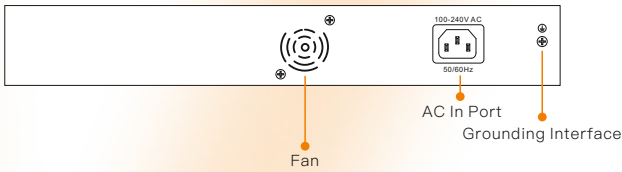
Dimensions (mm)



Front Panel

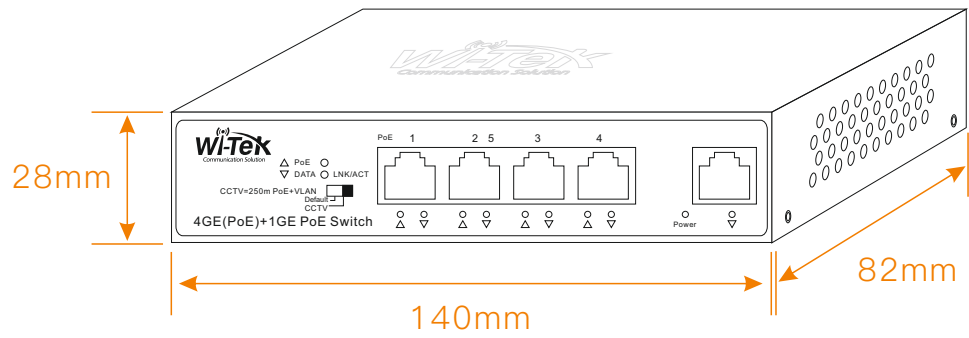


Rear Panel

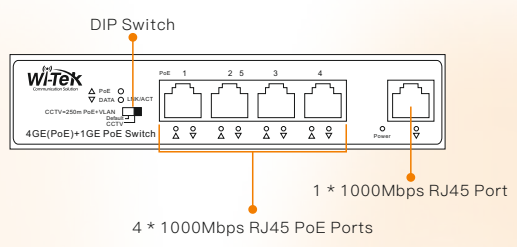


WI-PS305GH

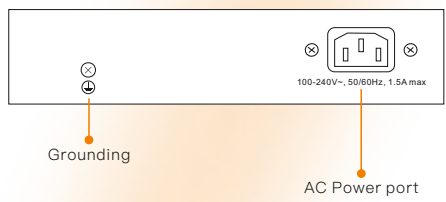
Dimensions (mm)



Front Panel

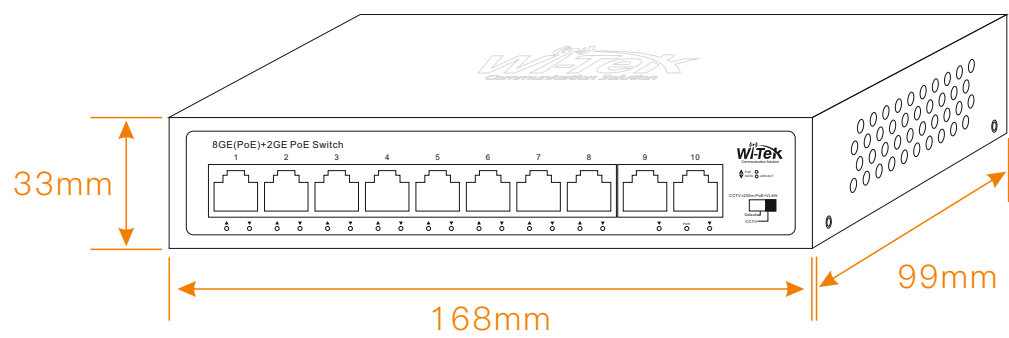


Rear Panel

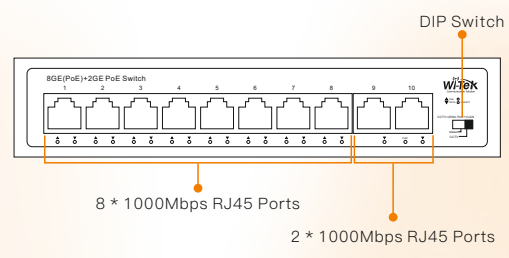


WI-PS308GH

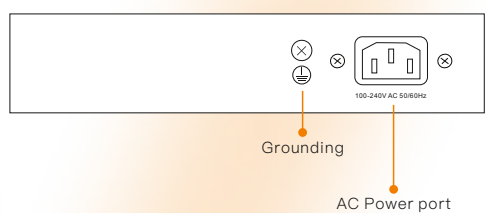
Dimensions (mm)



Front Panel

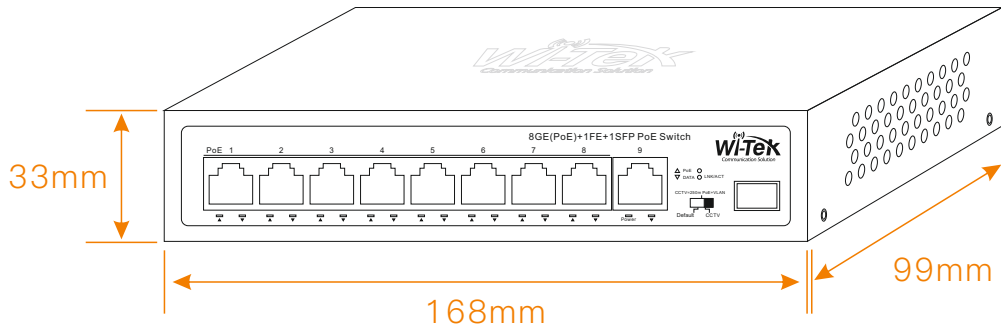


Rear Panel

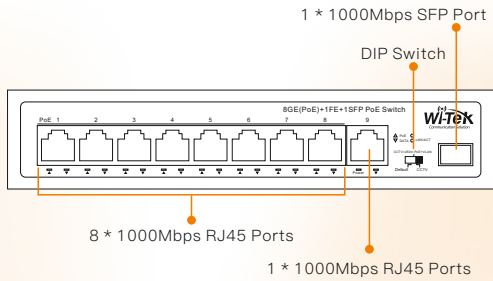


WI-PS309GFH

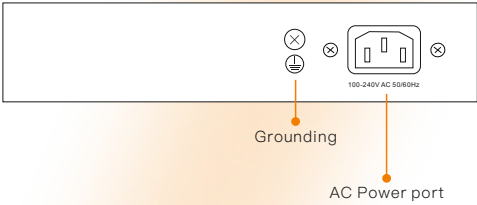
Dimensions (mm)



Front Panel

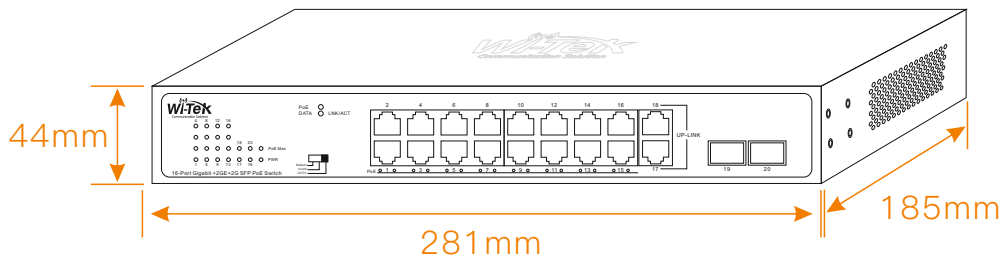


Rear Panel

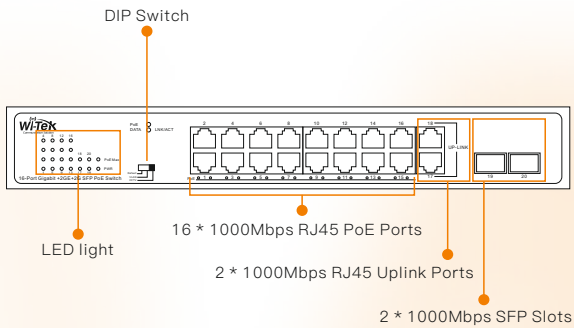


WI-PS318GFH

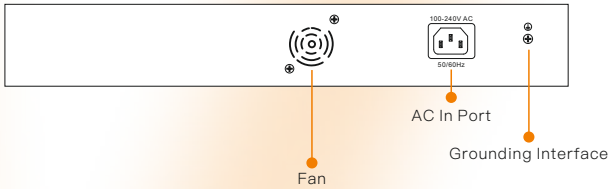
Dimensions (mm)



Front Panel

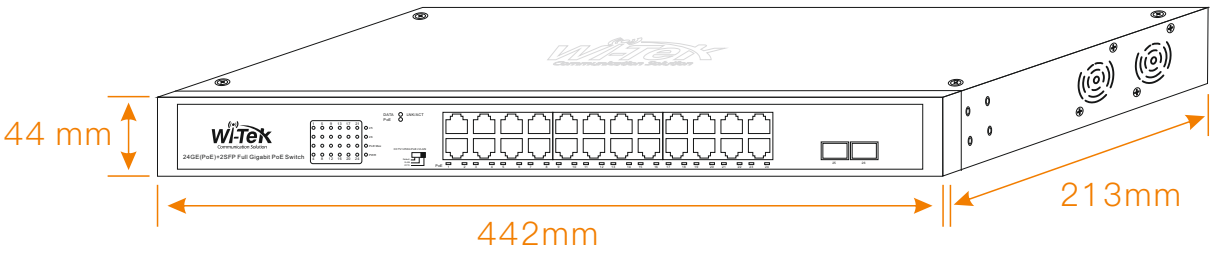


Rear Panel

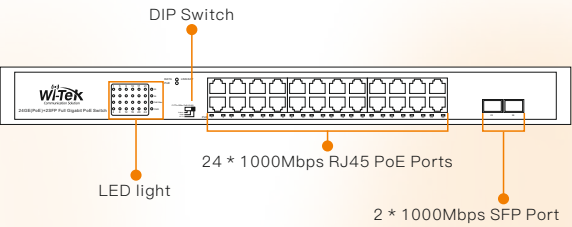


WI-PS326GFH

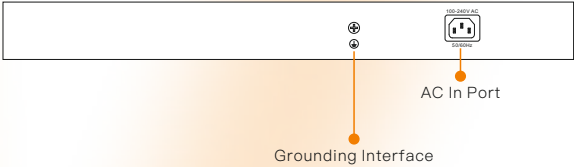
Dimensions (mm)



Front Panel



Rear Panel



# Package Contents

Welcome to order our products. After purchasing, you will receive:

| WI-PS205H   WI-PS305GH                              |          |
|-----------------------------------------------------|----------|
| Items                                               | Quantity |
| Switch                                              | 1 pcs    |
| AC Power Cord                                       | 1 pcs    |
| Quick Installation Guide                            | 1 pcs    |
| WI-PS210H   WI-PS308GH   WI-PS309GFH                |          |
| Items                                               | Quantity |
| Switch                                              | 1 pcs    |
| AC Power Cord                                       | 1 pcs    |
| Quick Installation Guide                            | 1 pcs    |
| Mats                                                | 4 pcs    |
| WI-PS518GH   WI-PS526GH   WI-PS318GFH   WI-PS326GFH |          |
| Items                                               | Quantity |
| Switch                                              | 1 pcs    |
| AC Power Cord                                       | 1 pcs    |
| Rack Mount kit (Hooks × 2; Mats × 4; Screws × 8)    | 1 pcs    |
| Quick Installation Guide                            | 1 pcs    |



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Technical Support



Cloud Management



Company Website