Amcrest AGPS18E16P-AT-190M

Amcrest AGPS18E16P-AT-190M 18-Port PoE+ Gigabit Ethernet Switch User Manual

Model: AGPS18E16P-AT-190M | Brand: Amcrest

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Amcrest AGPS18E16P-AT-190M 18-Port PoE+ Gigabit Ethernet Switch. This managed switch is designed for efficient network management, offering Power over Ethernet (PoE+) capabilities for various network devices such as IP cameras, wireless access points, and VoIP phones. Please read this manual thoroughly before using the device to ensure proper setup and functionality.

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Video: An official Amcrest video providing an overview of the product's reliability and security features, demonstrating its application in various settings.

2. Product Features

The Amcrest AGPS18E16P-AT-190M switch offers a robust set of features for demanding network environments:

- 18-Port POE+ 802.3at Desktop Power Ethernet Switch with 16-Port POE+ and Gigabit Uplink (10/100/1000mbps).
- Supports maximum 30W power (POE+ 802.3at) and 10/100mbps to each POE port.
- 190W total power available to all POE ports.
- 10/100/1000mbps Gigabit Ethernet Uplink and SFP Optical Fiber Uplink.
- Enterprise-level managed switch capability.
- Rack-mountable design for flexible installation.

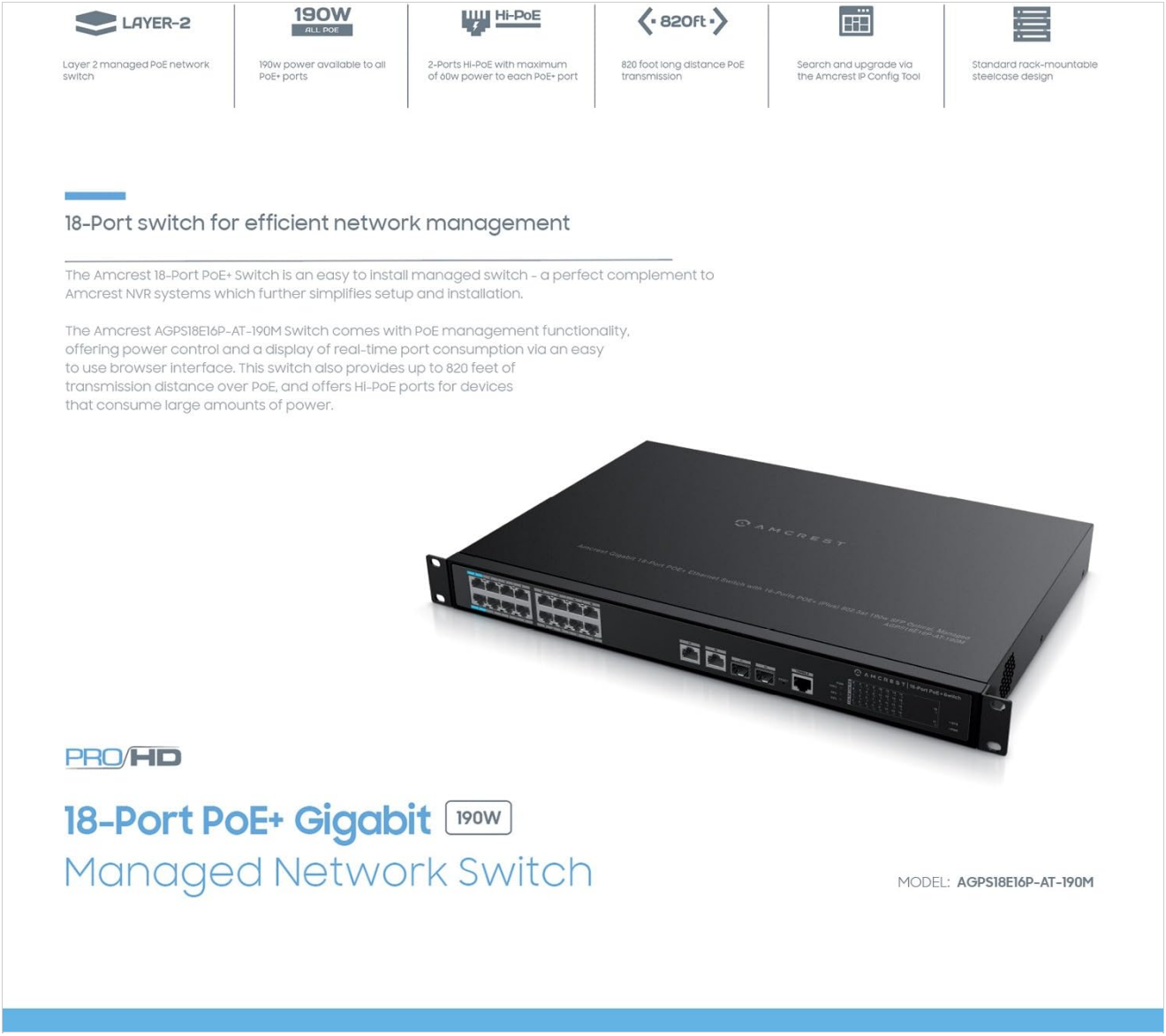

Image: Diagram highlighting key features of the Amcrest 18-Port PoE+ Switch, including 190W power, Hi-PoE, 820ft long distance PoE transmission, and rack-mountable design.

3. Package Contents

Please verify that all items are present in your package:

- Amcrest AGPS18E16P-AT-190M 18-Port PoE+ Gigabit Ethernet Switch
- Power Cord
- Rackmount Ears (with screws)
- User Guide (this document)

4. Physical Description

Familiarize yourself with the ports and indicators on the switch.

Front Panel

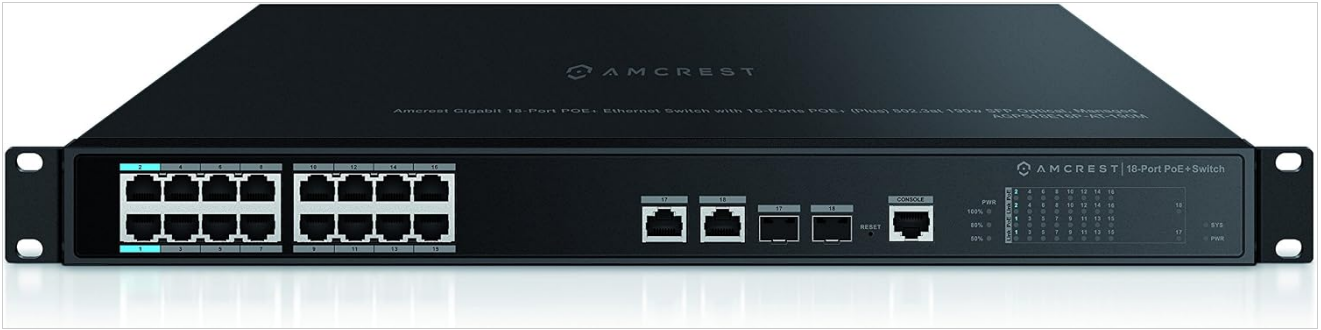

Image: Front view of the Amcrest 18-Port PoE+ Switch. This image shows the 16 PoE+ ports, 2 Gigabit uplink ports, 2 SFP ports, console port, reset button, and LED indicators.

- **PoE+ Ports (1-16):** 10/100Mbps ports supporting 802.3at/af PoE+.
- **Gigabit Uplink Ports (17-18):** 10/100/1000Mbps Ethernet ports for connecting to a core network or other switches.
- **SFP Ports (17-18):** Shared with Gigabit Uplink ports, these slots are for SFP fiber optic modules for long-distance connections.
- **Console Port:** For command-line interface (CLI) management.
- **Reset Button:** Used to restore factory default settings.
- **LED Indicators:** Provide status for Power (PWR), System (SYS), Link/Act, and PoE status for each port.

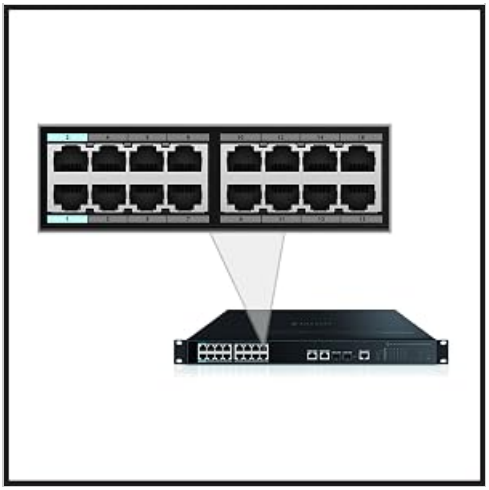

Image: Close-up image of the ports on the Amcrest 18-Port PoE+ Switch, providing a clearer view of the Ethernet and SFP connections.

Dimensions

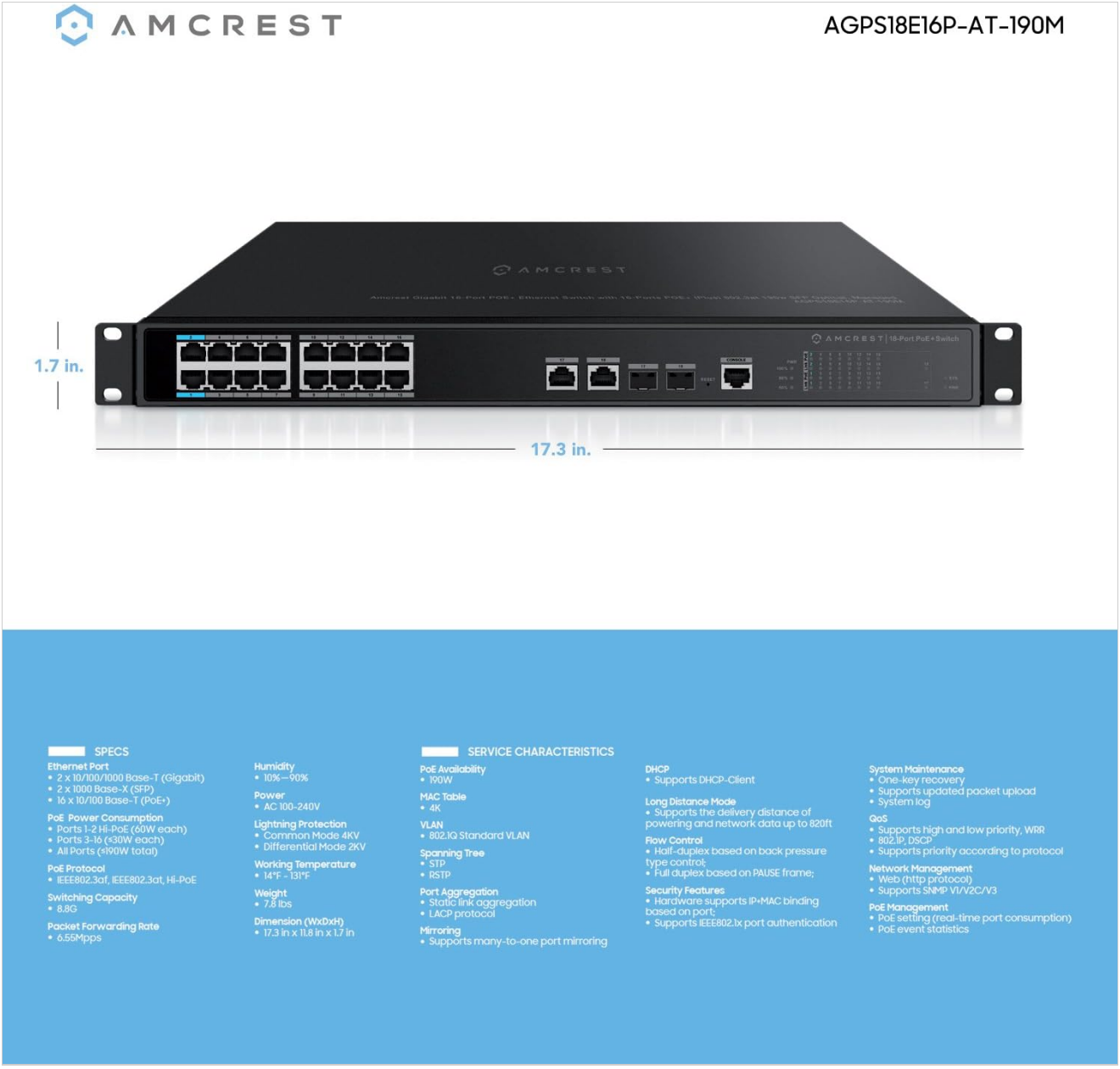

Image: Detailed view of the Amcrest 18-Port PoE+ Switch showing its dimensions (17.3 inches wide, 1.7 inches high) and a clear layout of all ports and indicators.

5. Setup

Follow these steps to set up your Amcrest PoE+ switch:

1. **Mounting:** The switch is rack-mountable. Attach the included rackmount ears to the sides of the switch using the provided screws. Secure the switch into a standard 19-inch equipment rack. Ensure adequate ventilation around the switch.
2. **Power Connection:** Connect the power cord to the AC power inlet on the rear panel of the switch and then to a grounded electrical outlet.
3. **Network Connections:**
    - **PoE Devices:** Connect your PoE-compatible devices (e.g., IP cameras, access points) to ports 1-16 using standard Ethernet cables. The switch will automatically detect and provide power to these devices.
    - **Uplink Ports:** Connect the Gigabit uplink ports (17 or 18) to your router, NVR, or main network switch using an Ethernet cable.
    - **SFP Modules:** If using fiber optic connections, insert compatible SFP modules into the SFP slots

(shared with ports 17-18) and connect fiber optic cables.

4. **Initial Configuration:** For managed features, connect a computer to any non-PoE port or a Gigabit uplink port. The switch typically has a default IP address (refer to the included quick start guide or Amcrest support for the specific default IP and login credentials). Access the web-based management interface via a web browser to configure advanced settings.

Image: Illustrative image showing various network devices, such as IP cameras and access points, connected to the Amcrest PoE+ Switch, demonstrating its application in a network setup.

6. Operating Instructions

Powering On/Off

Once the power cord is connected, the switch will power on automatically. The PWR LED indicator will illuminate. To power off, disconnect the power cord from the electrical outlet.

LED Indicators

- **PWR:** Solid green when the switch is powered on.
- **SYS:** Indicates system status (e.g., solid for normal operation, blinking for activity).
- **Link/Act (per port):** Solid green when a device is connected and a link is established. Blinking green indicates data activity.
- **PoE (per port):** Solid green when PoE power is being supplied to a connected device.

Managed Features

As a managed switch, the AGPS18E16P-AT-190M offers advanced configuration options via its web-based interface. These include:

- VLAN configuration for network segmentation.
- Quality of Service (QoS) settings to prioritize network traffic.
- Port Aggregation (LACP) for increased bandwidth and redundancy.
- PoE management, including power scheduling and monitoring.
- System logs and diagnostics.

Refer to the switch's online documentation or Amcrest support for detailed instructions on configuring these advanced features.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your switch:

- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Periodically check the Amcrest official website for available firmware updates. Applying updates can improve performance, add features, and address security vulnerabilities. Follow the instructions provided with the firmware update carefully.
- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges. Avoid exposing the switch to direct sunlight, excessive heat, or moisture.

8. Troubleshooting

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

- **No Power:**
  - Ensure the power cord is securely connected to both the switch and a working electrical outlet.
  - Verify the power outlet is functional by plugging in another device.
- **No Link/Connectivity:**
  - Check that Ethernet cables are securely connected to both the switch port and the connected device.
  - Ensure the connected device is powered on and functioning correctly.
  - Try a different Ethernet cable or port.
  - For SFP connections, ensure the SFP module is correctly inserted and compatible.
- **PoE Not Delivering Power:**
  - Verify the connected device is PoE-compatible (802.3at/af).
  - Check the PoE LED for the specific port; if it's off, power is not being supplied.
  - Ensure the total power consumption of all PoE devices does not exceed the switch's 190W budget.
  - Access the web management interface to check PoE settings and status for the port.
- **Slow Network Speed:**
  - Check for faulty cables or connections.
  - Ensure connected devices are operating at their expected speeds (e.g., 100Mbps devices on 10/100 ports).
  - Review QoS settings in the management interface if traffic prioritization is configured.
- **Resetting the Switch:** If issues persist, you may need to reset the switch to factory default settings. With the switch powered on, use a paperclip or similar pointed object to press and hold the Reset button for approximately 5-10 seconds until the LEDs flash. The switch will then reboot with default settings.

9. Specifications

Detailed technical specifications for the Amcrest AGPS18E16P-AT-190M switch:

Feature	Specification
Brand	Amcrest
Model Number	AGPS18E16P-AT-190M
Number of Ports	18 (16 PoE+, 2 Gigabit Uplink/SFP)
PoE Standard	IEEE 802.3at/af
Max PoE Power per Port	30W
Total PoE Power Budget	190W
Ethernet Port Speed	10/100Mbps (PoE+ ports), 10/100/1000Mbps (Uplink ports)

Feature	Specification
Uplink Interface	Gigabit Ethernet, SFP
Switch Type	Managed
Case Material	Metal
Rack Mountable	Yes
Power Supply	AC 100-240V
Dimensions (W x H x D)	17.3 x 1.7 x [Depth not specified, typical for 1U rackmount] inches
Operating Humidity	10% - 90% RH (non-condensing)
Warranty	1 Year

10. Warranty and Support

The Amcrest AGPS18E16P-AT-190M switch comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For technical support, warranty claims, or additional product information, please contact Amcrest customer service through their official website or the contact information provided with your purchase. Ensure you have your product model number (AGPS18E16P-AT-190M) and proof of purchase available when contacting support.

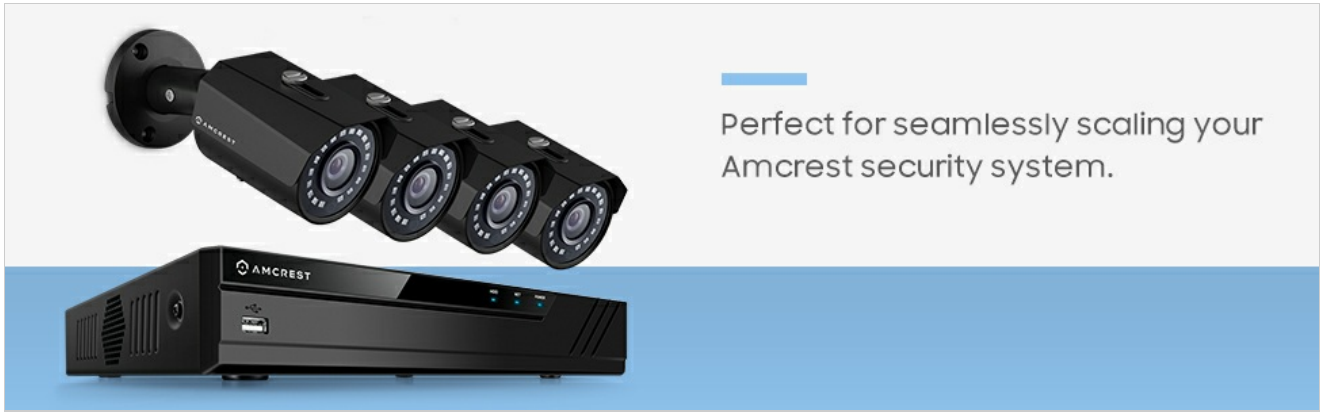

Image: An image depicting the Amcrest PoE+ Switch as part of a larger security system, connecting multiple surveillance cameras.