TP-Link Festa FS318G

TP-Link Festa FS318G 18-Port Gigabit Smart Managed Network Switch User Manual

Model: Festa FS318G

1. Introduction

This manual provides instructions for the installation, configuration, and operation of the TP-Link Festa FS318G 18-Port Gigabit Smart Managed Network Switch. The FS318G features 16 Gigabit RJ45 ports and 2 Gigabit SFP slots, offering high-speed connectivity for various network environments. It supports centralized cloud management via the Festa platform, providing essential features for network administration. Please note that this model is a Non-PoE switch and does not support Power over Ethernet. It is also not compatible with TP-Link Omada Controllers, requiring Festa Cloud for management.

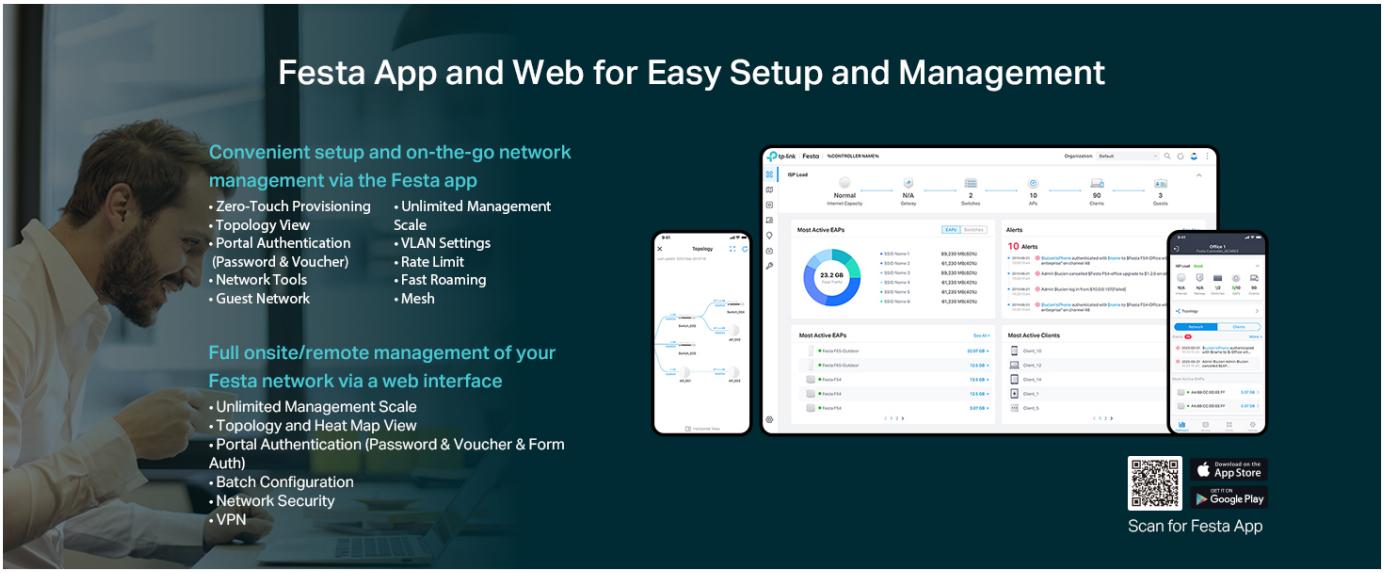


Image 1.1.1: An overview of the TP-Link Festa FS318G Smart Managed Switch, highlighting its 18 Gigabit ports (16 RJ45, 2 SFP), free centralized management via cloud, Festa App for easy setup, Zero-Touch Provisioning, Link Aggregation, Static Routing, and Traffic Separation capabilities.

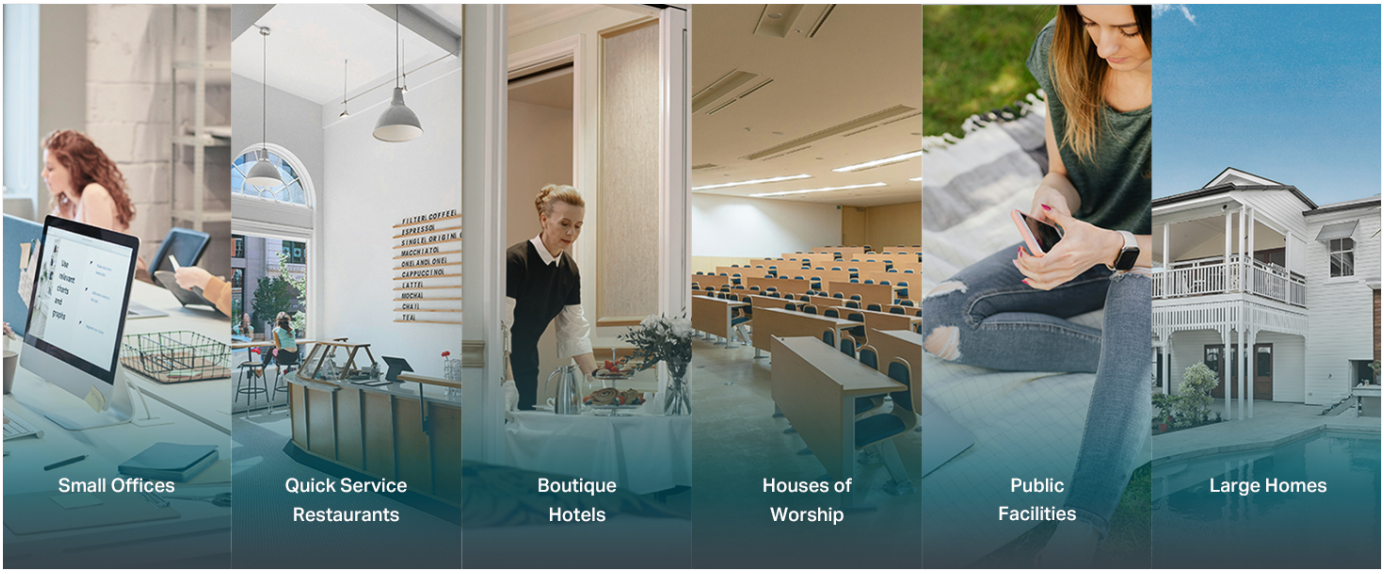


Image 1.1.2: Diagram illustrating the full Gigabit port capabilities of the FS318G, including 16 RJ45 downlink ports, 2 SFP uplink slots, a switching capacity of up to 36 Gbps, and a forwarding rate of up to 26.8 Mpps. It also shows compatible devices such as Access Points, 4K Video devices, Network Video Recorders, Computers, NAS, and Printers.

2. Package Contents

Verify that your package contains the following items. If any item is missing or damaged, please contact your reseller.

- Festa FS318G 18-Port Gigabit Smart Managed Network Switch
- Power Cord
- Installation Guide
- Rackmount Kit
- Silicone Feet

3. Physical Overview

3.1 Front Panel

The front panel of the FS318G switch includes 16 RJ45 Gigabit Ethernet ports, 2 SFP Gigabit slots, LED indicators, and a Reset button.



Image 3.1.1: Front view of the TP-Link Festa FS318G 18-Port Gigabit Smart Managed Network Switch. It shows 16 RJ45 ports, 2 SFP slots, status LEDs, and a reset button.

Image 3.1.2: Detailed diagram of the FS318G switch highlighting its front panel components (RJ45 ports, SFP slots, Reset button, Metal Casing, Fanless operation) and rear panel components (Physical security lock, Power Input). Dimensions are also shown: 17.3 inches (440 mm) width, 7.1 inches (180 mm) depth, and 1.7 inches (44 mm) height.

3.2 Rear Panel

The rear panel contains the power input and a physical security lock slot.



Image 3.2.1: Rear view of the TP-Link Festa FS318G switch, showing the power input connector and a security lock slot.

4. Setup

4.1 Rack Mounting (Optional)

The FS318G switch is rack-mountable. Use the provided rackmount kit to install the switch into a standard 19-inch equipment rack.

1. Attach the rackmount brackets to the sides of the switch using the screws provided in the kit.
2. Secure the switch into the rack using appropriate rack screws (not included).

4.2 Desktop Placement

For desktop use, attach the included silicone feet to the bottom of the switch to prevent sliding and protect surfaces. Ensure adequate ventilation around the device.

4.3 Connecting the Switch

1. **Power Connection:** Connect the provided power cord to the power input on the rear panel of the switch and then to an appropriate power outlet.
2. **Network Devices:** Connect your network devices (e.g., computers, servers, network printers, routers, access points) to the RJ45 ports (1-16) on the front panel using Ethernet cables.
3. **Fiber Connections (Optional):** For fiber optic connections, insert compatible SFP modules into the SFP slots (17-18) and connect fiber optic cables.

Once powered on, the switch will initiate. The system LED will indicate its status.

5. Operating the Switch

5.1 Centralized Cloud Management (Recommended)

The TP-Link Festa FS318G switch is designed for management through the Festa Cloud platform. This provides centralized control and monitoring of your network devices from anywhere, anytime, without additional cost.

- **Festa App:** Download the Festa app on your mobile device for easy setup and on-the-go network management.
- **Web Browser:** Access the Festa Cloud portal via a web browser for full onsite/remote management capabilities.

Important Note: The Festa FS318G does not work with TP-Link Omada Controllers and requires Festa Cloud for management. Standalone mode is not applicable for full feature utilization.

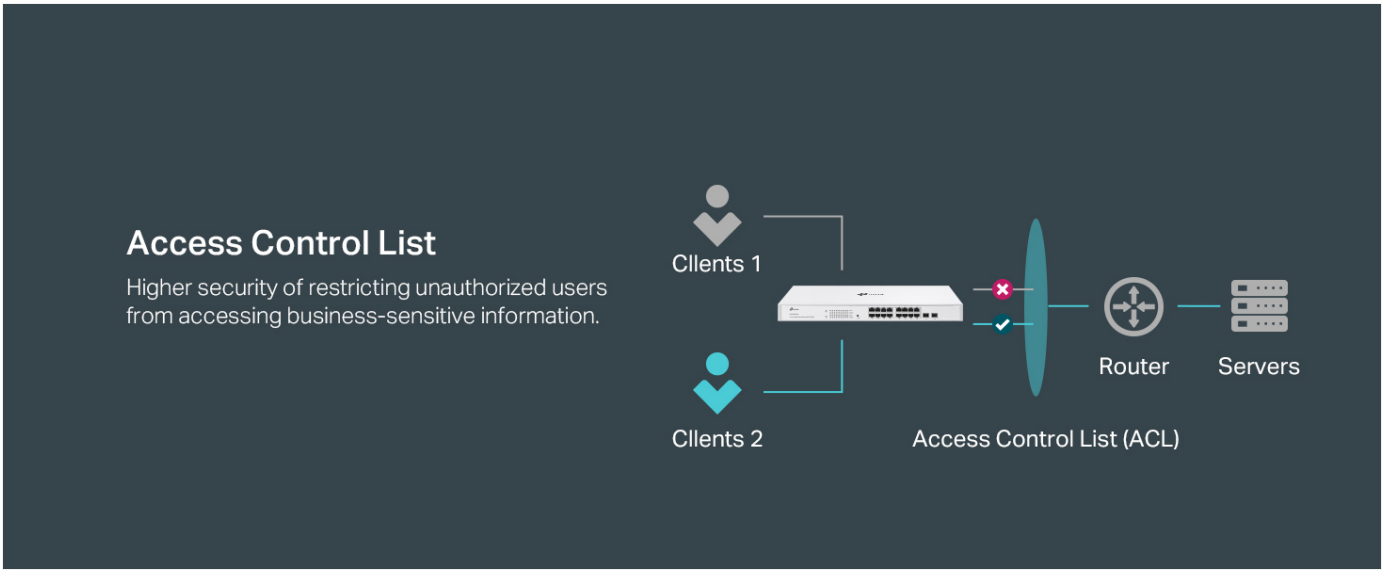


Image 5.1.1: Illustration of the Festa App and Web interface for convenient setup and comprehensive network management, including features like Zero-Touch Provisioning, VLAN settings, and network security.

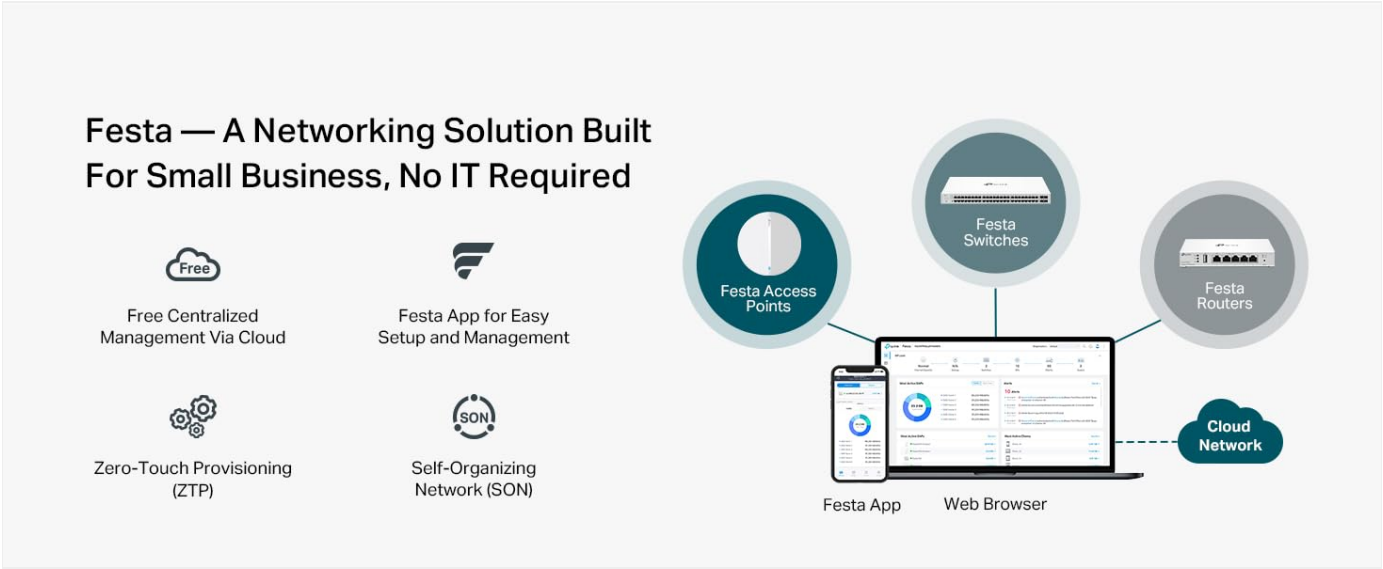


Image 5.1.2: Diagram illustrating a typical Festa networking solution for small businesses, showing how Festa switches, access points, and routers integrate with the Festa App and Web browser via the Cloud Network.

5.2 Key Features

The Festa FS318G supports various software features to enhance network performance and security:

- **VLAN (Virtual Local Area Network):** Helps create a network with higher security and better overall performance by dividing the network into smaller, isolated groups.
- **Access Control List (ACL):** Provides higher security by restricting unauthorized users from accessing business-sensitive information.
- **Loopback Detection:** Detects and prevents network loops.
- **IGMP Snooping:** Optimizes multimedia traffic delivery for applications like IPTV, ensuring a better network experience.
- **Static Routing:** Allows for manual configuration of network routes.
- **Link Aggregation:** Combines multiple physical links into a single logical link to increase bandwidth and provide redundancy.

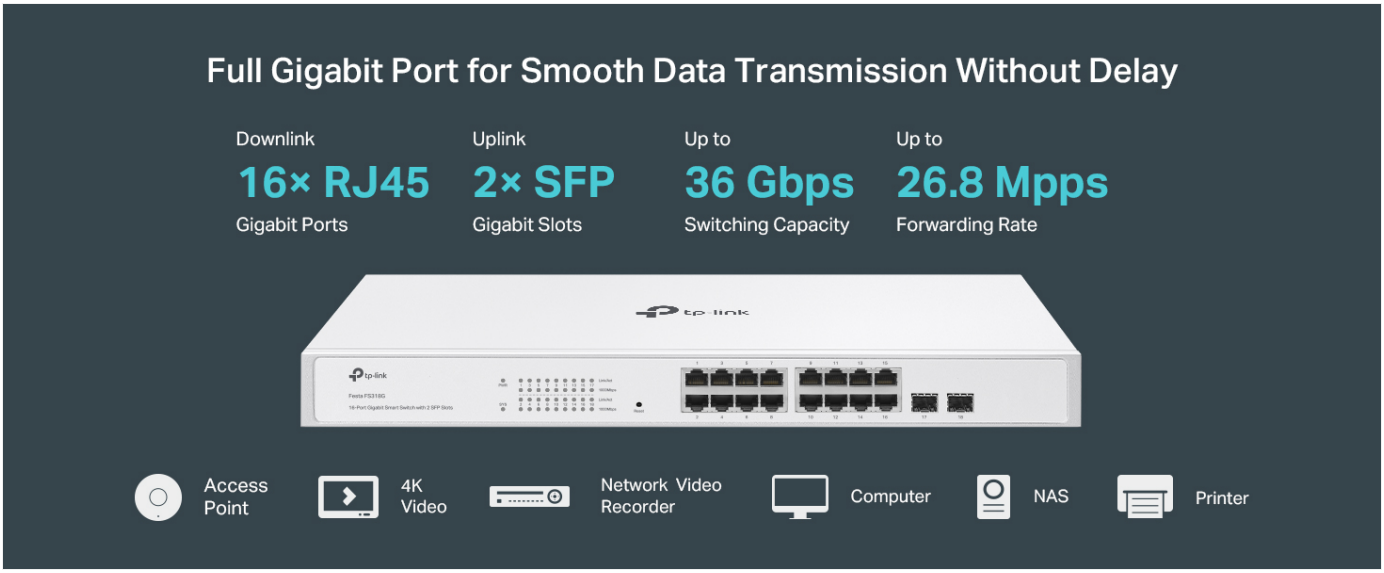


Image 5.2.1: Diagram illustrating how VLANs enhance network security and performance by segmenting the network into distinct departments (Department A, B, C VLANs).



Image 5.2.2: Diagram showing Link Aggregation, where two Gigabit links are combined into a single logical link to achieve up to 2Gbps speed, improving reliability and availability.

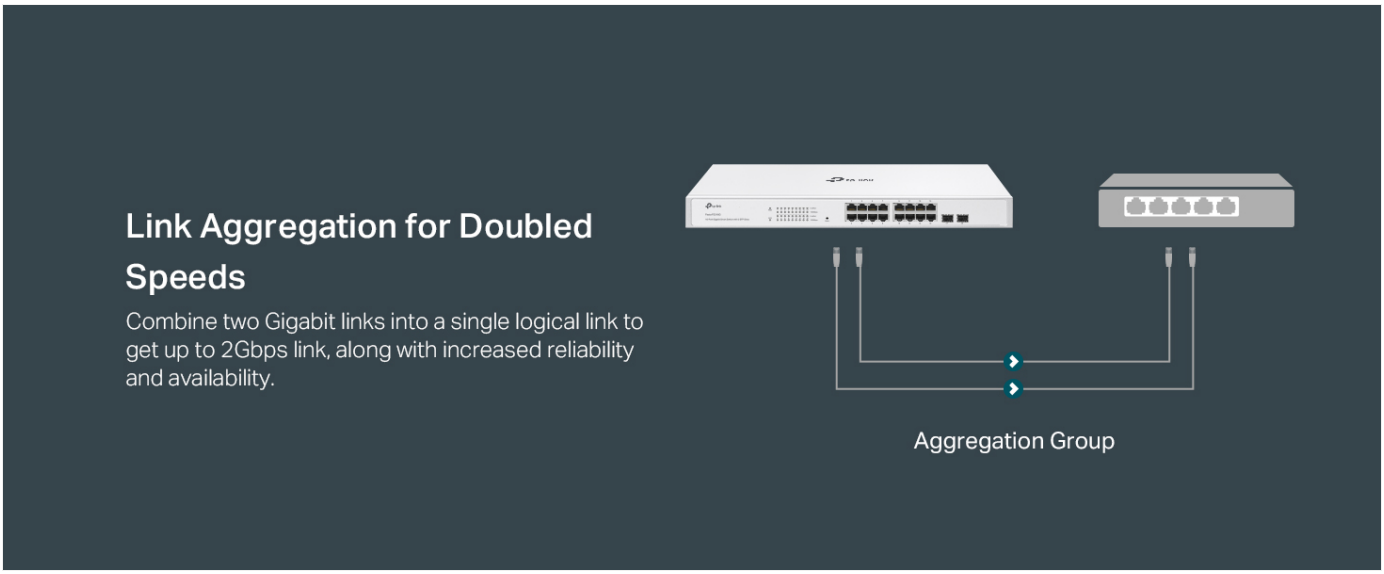


Image 5.2.3: Diagram illustrating IGMP Snooping, which optimizes multimedia traffic delivery (e.g., IPTV) by forwarding multicast streams only to ports where receivers are present, reducing unnecessary network load compared to a non-IGMP setup.

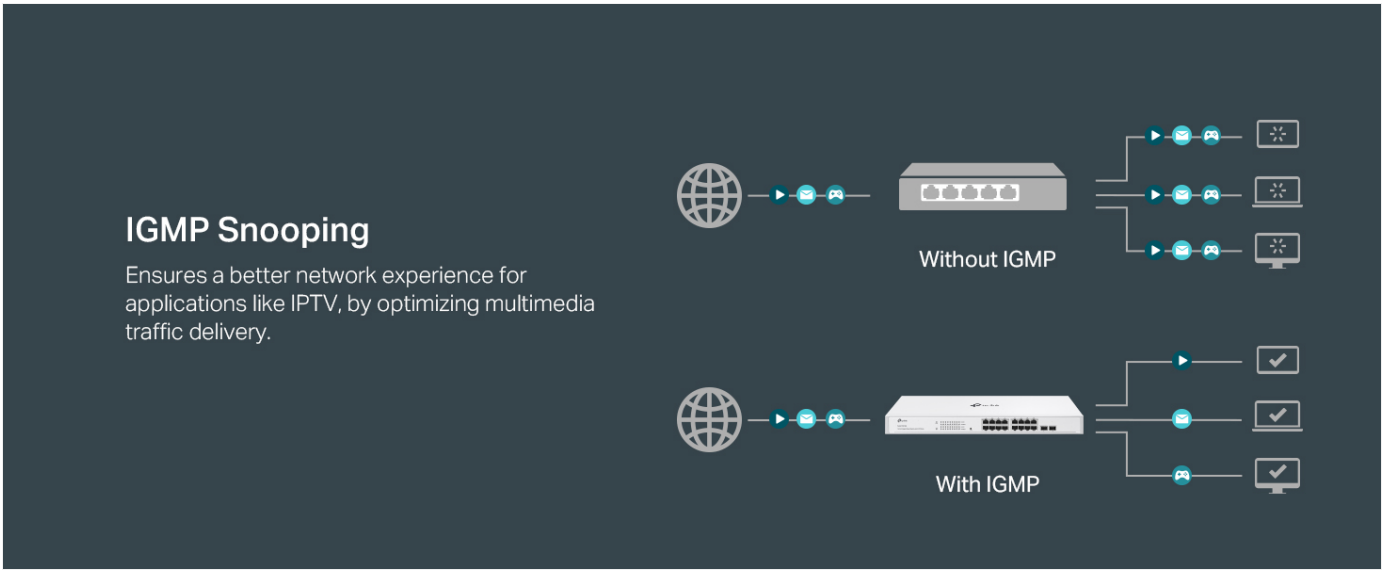


Image 5.2.4: Diagram demonstrating the function of an Access Control List (ACL), which restricts unauthorized clients from accessing sensitive information on servers, enhancing network security.

6. Maintenance

To ensure optimal performance and longevity of your TP-Link Festa FS318G switch, follow these maintenance guidelines:

- **Environment:** Operate the switch within its specified temperature and humidity ranges. Avoid direct sunlight, heat sources, and excessive moisture.
- **Cleaning:** Keep the switch clean and free of dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are not blocked to allow for proper airflow, even though the device is fanless.
- **Firmware Updates:** Regularly check the TP-Link Festa website or the Festa Cloud platform for available firmware updates. Keeping the firmware updated ensures access to the latest features, performance improvements, and security patches.
- **Power Cycle:** If the switch experiences issues, a simple power cycle (unplugging and replugging the power cord) can often resolve minor problems.

7. Troubleshooting

If you encounter issues with your TP-Link Festa FS318G switch, refer to the following common troubleshooting steps:

- **No Power:**
  - Ensure the power cord is securely connected to the switch and a working power 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 network device.
  - Verify the status LED for the connected port. If it's off, try a different cable or port.
  - Ensure the connected device is powered on and functioning correctly.
- **Slow Network Speed:**
  - Confirm that all connected devices and cables support Gigabit Ethernet speeds.
  - Check for network loops (Loopback Detection feature can help).
  - Monitor network traffic via the Festa Cloud platform to identify bottlenecks.
- **Cannot Access Festa Cloud:**

- Ensure your internet connection is active.
- Verify that the switch has internet access.
- Check the status of the Festa Cloud service on the TP-Link website.

For more detailed troubleshooting or persistent issues, please visit the official TP-Link support website or contact their technical support.

8. Specifications

Model	Festa FS318G
Ports	16x 10/100/1000 Mbps RJ45 Ports, 2x Gigabit SFP Slots (Total 18 Ports)
Data Transfer Rate	18 Gigabits Per Second (Switching Capacity up to 36 Gbps)
Interface Type	RJ45, SFP
Case Material	Metal
Item Weight	4.23 pounds (1.92 kg)
Package Dimensions	21 x 10.5 x 3.1 inches
Features	VLAN, Access Control, Loopback Detection, IGMP Snooping, Static Routing, Free Cloud Access
Management	Smart Managed (via Festa Cloud App/Web)
Compatibility	Camera, Desktop, Laptop, Printer, Router (Not compatible with TP-Link Omada Controllers)
UPC	810142822183

9. Warranty and Support

For warranty information, technical support, and additional resources, please visit the official TP-Link website. You can find detailed product information, FAQs, and contact options for customer service.
TP-Link Official Website: www.tp-link.com
Festa Cloud Access: The Festa platform currently offers free cloud access for centralized management. TP-Link reserves the right to apply fees in the future.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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