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> [NICGIGA 10 Port 2.5Gb Unmanaged Ethernet Switch User Manual](#)

## NICGIGA S25-0802

# NICGIGA 10 Port 2.5Gb Unmanaged Ethernet Switch

Model: S25-0802

## 1. INTRODUCTION

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The NICGIGA 10 Port 2.5Gb Unmanaged Ethernet Switch is designed to expand your network capacity with high-speed connectivity. It features 8x 2.5 Gigabit Ethernet ports and 2x 10 Gigabit SFP+ uplink ports, providing a robust solution for demanding network environments such as 2.5G WiFi 6 Access Points, 2.5G Network Attached Storage (NAS), gaming PCs, and 4K video streaming. This unmanaged switch offers plug-and-play functionality, requiring no complex configuration.

## 2. PACKAGE CONTENTS

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Verify the following items are included in your package:

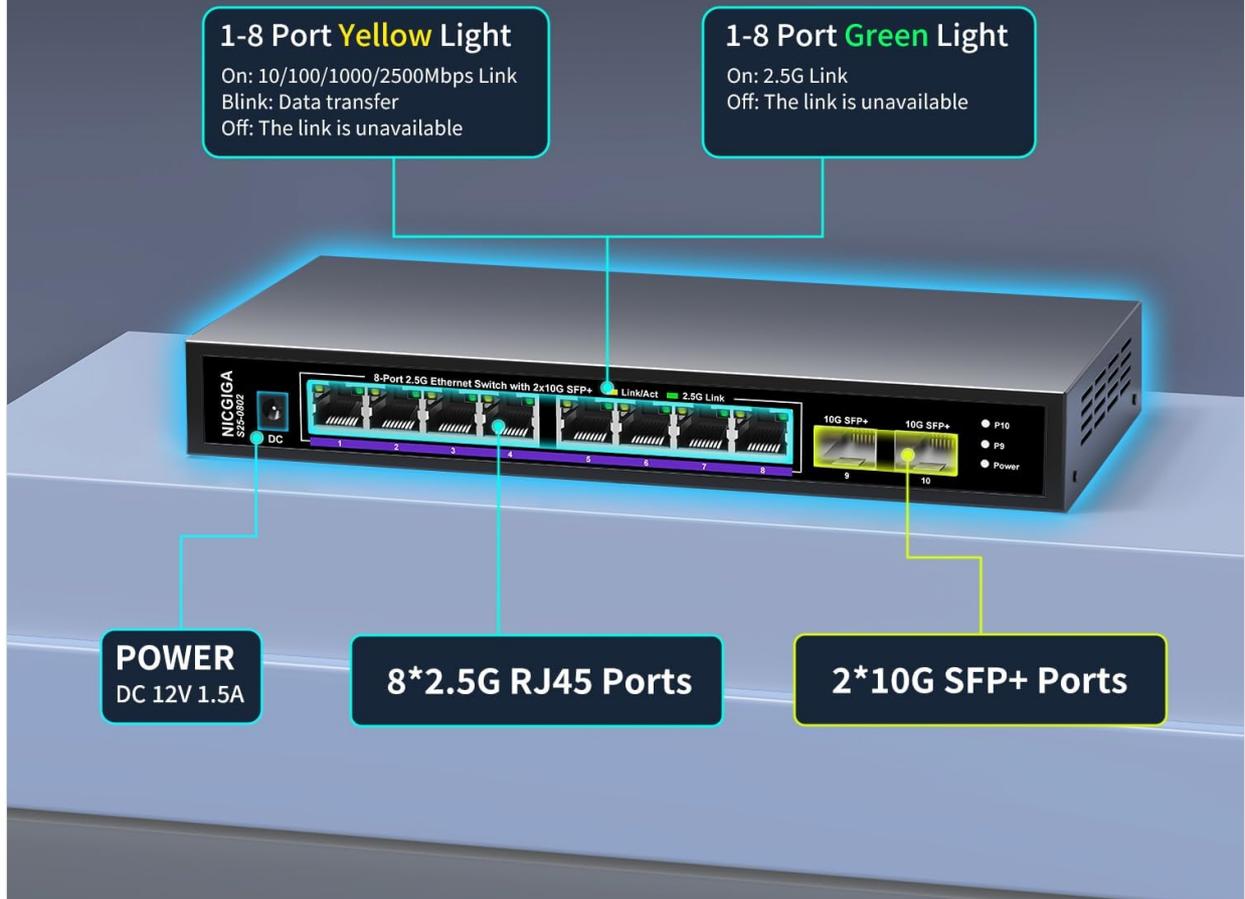
- NICGIGA 10 Port 2.5Gb Unmanaged Ethernet Switch (Model S25-0802)
- Power Adapter (DC 12V 1.5A)
- User Manual (this document)

## 3. PRODUCT OVERVIEW

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The switch features a durable metal casing and a fanless design for quiet operation. Below is an illustration of the front panel and its components.

# 8-Port 2.5G Ethernet Switch with 2 Port 2.5

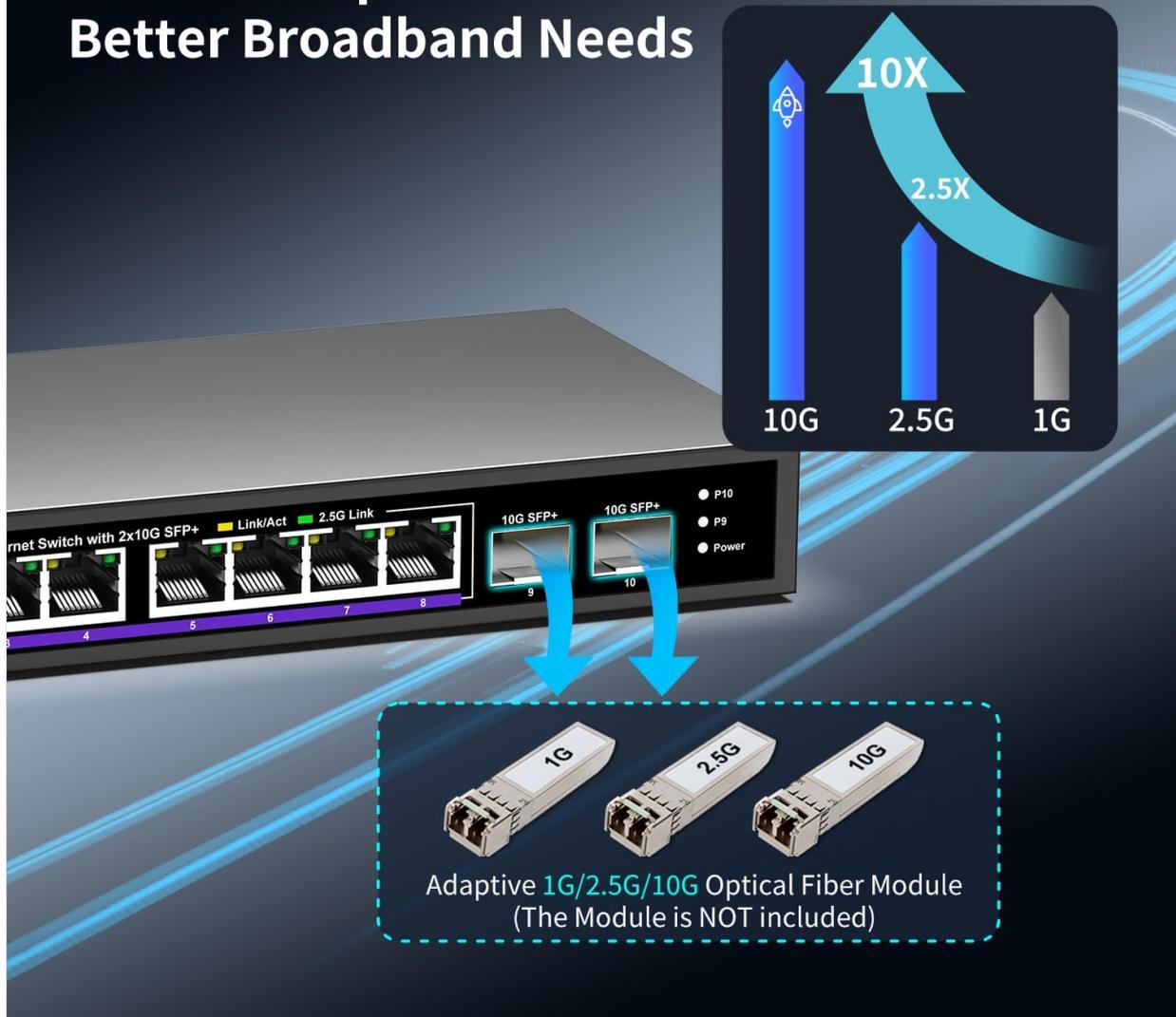


Front view of the NICGIGA 10 Port 2.5Gb Unmanaged Ethernet Switch, showing the DC power input, 8x 2.5G RJ45 ports, and 2x 10G SFP+ ports. LED indicators for link status and activity are visible above the ports.

## 3.1. Ports and Indicators

- **DC 12V 1.5A Power Input:** Connect the included power adapter here.
- **8x 2.5G RJ45 Ports (1-8):** These ports support 100/1000/2500Mbps speeds with auto-negotiation.
- **2x 10G SFP+ Ports (9-10):** These ports support 1G/2.5G/10G speeds for high-bandwidth uplink connections. SFP+ modules are not included.
- **LED Indicators:**
  - **RJ45 Ports (1-8) Yellow Light:** On indicates 100/1000/2500Mbps link. Blinking indicates data transfer. Off means the link is unavailable.
  - **RJ45 Ports (1-8) Green Light:** On indicates a 2.5G link. Off means the link is unavailable.
  - **SFP+ Ports (9-10) Link/Act LED:** On indicates a stable link. Blinking indicates data transfer.
  - **Power LED:** On indicates the device is powered on.

# 10G SFP+ Uplink Port for Better Broadband Needs



The 10G SFP+ uplink ports support adaptive 1G/2.5G/10G optical fiber modules (modules not included).

## 4. SETUP INSTRUCTIONS

The NICGIGA switch is designed for simple plug-and-play installation.

- 1. Power Connection:** Connect the provided power adapter to the DC 12V 1.5A power input port on the switch and then plug it into a standard electrical outlet. The Power LED should illuminate.
- 2. Network Device Connection (RJ45):** Connect your network devices (e.g., computers, NAS, WiFi 6 APs, routers) to the 2.5G RJ45 ports (1-8) using standard Ethernet cables. The switch will automatically detect the link speed (100Mbps, 1Gbps, or 2.5Gbps) and configure itself. The corresponding LED indicators will light up.
- 3. Uplink Connection (SFP+):** For high-speed uplink to a core network or server, insert a compatible 1G/2.5G/10G SFP+ module (not included) into one of the SFP+ ports (9-10). Then, connect an appropriate fiber optic cable or DAC cable to the SFP+ module and your target device. The Link/Act LED for the SFP+ port will illuminate upon successful connection.



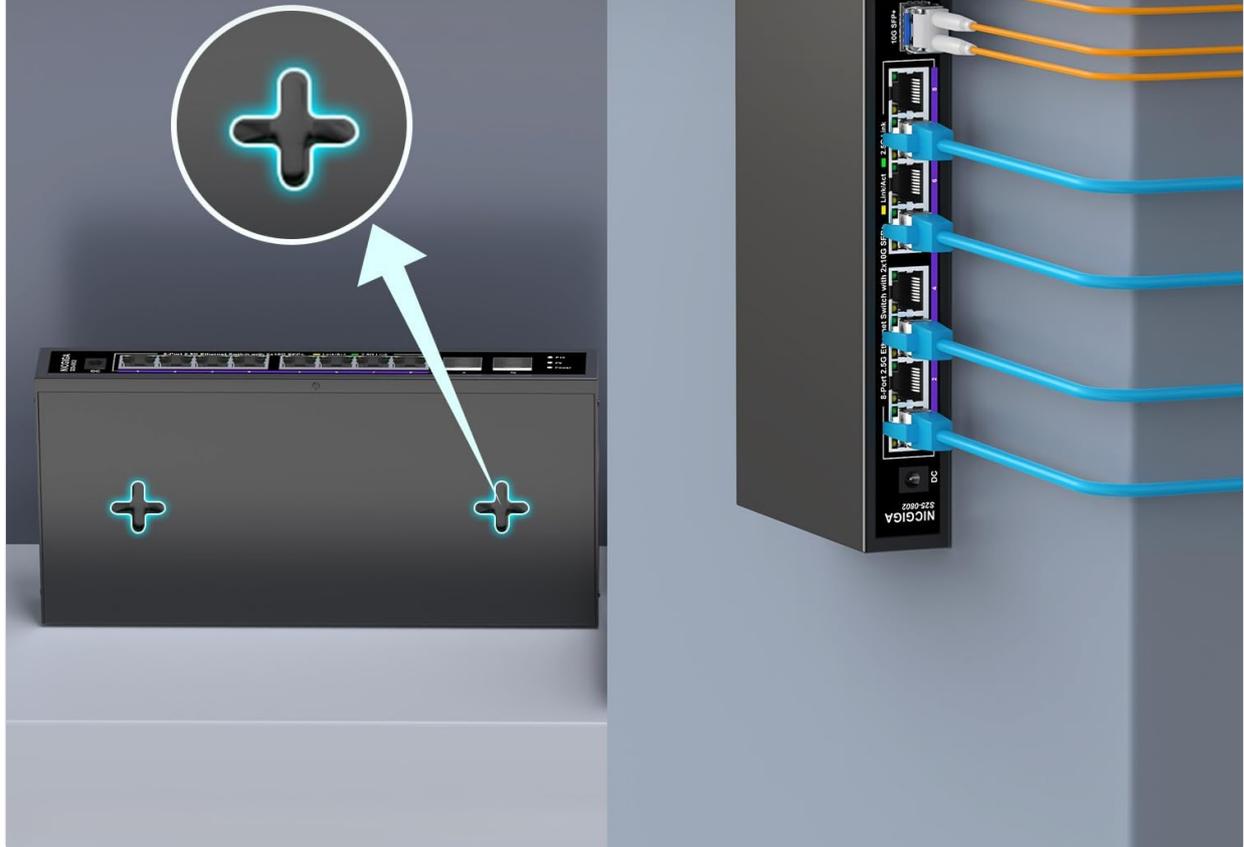
The switch features a compact design, fanless operation, and supports plug-and-play installation with a 60Gbps switching capacity.

#### 4.1. Wall Mounting

The switch includes two wall-hanging holes on the bottom for flexible placement in various environments.

# Wall Mount Design

Two wall-hanging holes are arranged at the bottom, which can be used in various scenes



The switch can be conveniently mounted on a wall using the integrated hanging holes.

## 5. OPERATING INSTRUCTIONS

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As an unmanaged switch, the NICGIGA S25-0802 operates automatically once connected. No software configuration is required.

- **Automatic Negotiation:** All RJ45 ports automatically detect the speed of connected devices (100Mbps, 1Gbps, 2.5Gbps) and adjust accordingly. The SFP+ ports support 1G, 2.5G, and 10G.
- **Non-Blocking Data Forwarding:** The switch provides full wire-speed forwarding on all ports simultaneously, ensuring maximum throughput for all connected devices.
- **Fanless Design:** The fanless operation ensures silent performance, making it suitable for noise-sensitive environments like home offices.



The switch facilitates building a high-speed 2.5G network for various devices throughout a home or office.

## 6. MAINTENANCE

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To ensure optimal performance and longevity of your NICGIGA switch, follow these maintenance guidelines:

- **Placement:** Place the switch in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture. Ensure adequate airflow around the device.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Cable Management:** Ensure all network cables are properly routed and secured to prevent accidental disconnections or damage.
- **Power Supply:** Use only the provided power adapter. Disconnect the power adapter during electrical storms or when unused for extended periods.

## 7. TROUBLESHOOTING

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If you encounter issues with your switch, refer to the following common troubleshooting steps:

- **No Power:**
  - Ensure the power adapter is securely connected to the switch and a working electrical outlet.
  - Verify the power outlet is functional by plugging in another device.
- **No Link Light on an RJ45 Port:**
  - Check if the Ethernet cable is securely plugged into both the switch port and the connected device.
  - Try a different Ethernet cable to rule out cable failure.
  - Ensure the connected device is powered on and its network adapter is functioning correctly.
  - Restart the connected device.
- **No Link Light on an SFP+ Port:**
  - Ensure the SFP+ module is correctly inserted into the port.
  - Verify the fiber optic or DAC cable is securely connected to the SFP+ module and the target device.
  - Confirm the SFP+ module and cable are compatible with both the switch and the connected device.
  - Check the status of the connected device's SFP+ port.
- **Slow Network Speed:**
  - Ensure all connected devices and cables support the desired speed (e.g., 2.5Gbps or 10Gbps). Using

older Cat5e cables might limit speeds to 1Gbps or less over longer distances.

- Check for network congestion by disconnecting non-essential devices.
- Verify the network adapter settings on your devices are configured for auto-negotiation or the correct speed.

## 8. SPECIFICATIONS

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<b>Model</b>	S25-0802
<b>Number of Ports</b>	10 (8x 2.5G RJ45, 2x 10G SFP+)
<b>RJ45 Port Speed</b>	100/1000/2500Mbps (Auto-Negotiation)
<b>SFP+ Port Speed</b>	1G/2.5G/10G (Adaptive)
<b>Switching Capacity</b>	60Gbps
<b>Interface Type</b>	RJ45, SFP+
<b>Case Material</b>	Metal
<b>Cooling</b>	Fanless Design
<b>Operating Temperature</b>	-10°C to 50°C (14°F to 122°F)
<b>Lightning Protection</b>	6KV
<b>Power Supply</b>	DC 12V 1.5A (External Adapter)
<b>Dimensions (L x W x H)</b>	218mm x 106mm x 29mm (8.58 x 4.17 x 1.14 inches)
<b>Item Weight</b>	0.79 kg (1.74 lbs)

## 9. WARRANTY AND SUPPORT

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NICGIGA is committed to providing reliable products and excellent customer service.

- **Warranty:** This product comes with a one-year warranty from the date of purchase.
- **Technical Support:** NICGIGA provides lifetime technical support for this product.
- **Contact:** For technical assistance or warranty inquiries, please refer to the contact information provided on the official NICGIGA website or your purchase documentation.