

UGREEN UM106X, UG206P

UGREEN 6-Port 2.5Gb/10Gb SFP+ and 6-Port PoE+ Gigabit Ethernet Switch Bundle Instruction Manual

Models: UM106X (2.5Gb/10Gb SFP+ Switch) & UG206P (PoE+ Gigabit Switch)

Brand: UGREEN

1. INTRODUCTION

This instruction manual provides detailed information for the UGREEN 6-Port 2.5Gb/10Gb SFP+ Unmanaged Switch (Model UM106X) and the UGREEN 6-Port PoE+ Gigabit Unmanaged Switch (Model UG206P). These devices are designed to expand your network connectivity and enhance data transfer speeds for various applications.

2. PRODUCT OVERVIEW

2.1 UGREEN UM106X 6-Port 2.5Gb/10Gb SFP+ Unmanaged Switch



Figure 1: UGREEN UM106X 6-Port 2.5Gb/10Gb SFP+ Unmanaged Switch (Top View)

The UGREEN UM106X is an unmanaged Ethernet switch designed for high-speed network environments. It features 5 x 2.5Gb uplink ports and 1 x 10Gb SFP+ port, allowing for flexible and fast connections for devices such as NAS, gaming PCs, and routers. This switch supports automatic negotiation of data rates and is backward compatible with 1G/100Mbps connections. Its fanless design ensures silent operation, and the durable metal housing provides efficient heat dissipation.

Key Features (UM106X):

- **High-Speed Connectivity:** 5 x 2.5Gb RJ45 ports and 1 x 10Gb SFP+ port for ultimate network performance.
- **Multi-Mode Operation:** Easily switch between Standard, VLAN, and Link Aggregation modes.
 - **Standard Mode:** All ports can connect to the network normally.
 - **VLAN Mode:** Isolates ports 1-4 for better management and storm prevention.
 - **Link Aggregation Mode:** Establishes dual-port bandwidth aggregation to increase network backup and speed.
- **Plug and Play:** No configuration or software installation required.
- **Fanless Design:** Ensures silent operation, suitable for quiet environments.

- **Durable Metal Housing:** Provides robust protection and efficient heat dissipation.

2.2 UGREEN UG206P 6-Port PoE+ Gigabit Unmanaged Switch



Figure 2: UGREEN UG206P 6-Port PoE+ Gigabit Unmanaged Switch (Top View)

The UGREEN UG206P is an unmanaged PoE+ Ethernet switch offering both data and power transmission over a single Ethernet cable. It features 4 PoE+ (802.3at/af) Gigabit ports and 2 Gigabit uplink ports, with a total power budget of 60W. This switch is ideal for powering devices like security cameras, IP phones, and wireless access points. Its durable metal housing provides robust protection.

Key Features (UG206P):

- **PoE+ Capability:** 4 PoE+ (802.3at/af) Gigabit ports, each providing up to 30W, with a total power budget of 60W.
- **Gigabit Uplink Ports:** 2 dedicated Gigabit uplink ports for connecting to your router or main network.
- **Intelligent Power Management:** Automatically detects PoE devices and supplies power. Features overload protection (cuts ports 4-1 in priority) and short-circuit protection.

- **One-Touch Three Modes:**

- **Standard Mode:** Gigabit auto-negotiation, compatible with IEEE 802.3af/at.
- **VLAN Mode:** Ports 1-4 are isolated but can communicate with ports 5-6, enhancing network control and preventing storms.
- **Extended Mode:** Supports PoE with transmission up to 820ft (250 meters) at 10Mbps. This is ideal for long-distance PoE applications like security cameras.

- **Plug and Play:** Simple setup without complex configuration.

3. SETUP

Both UGREEN switches are designed for plug-and-play operation, requiring no software installation or complex configuration. Follow these general steps for installation:

1. **Power Connection:** Connect the provided power adapter to the switch's power interface and then to a power outlet. The power LED indicator on the switch will illuminate.
2. **Connect to Router/Main Network:**
 - For **UM106X (2.5Gb/10Gb SFP+ Switch)**: Use a Cat6 or higher Ethernet cable to connect one of the 2.5Gb ports or the 10Gb SFP+ port (with an appropriate SFP+ module) to your router or main network device.
 - For **UG206P (PoE+ Gigabit Switch)**: Use a Cat5e or higher Ethernet cable to connect one of the 2 Gigabit uplink ports (ports 5 or 6) to your router or main network device.
3. **Connect Devices:**
 - For **UM106X**: Connect your high-bandwidth devices (e.g., NAS, gaming console, PC with 2.5Gb/10Gb NIC) to the remaining 2.5Gb or 10Gb SFP+ ports using Cat6 or higher Ethernet cables.
 - For **UG206P**: Connect your PoE-compatible devices (e.g., IP cameras, IP phones, wireless access points) to ports 1-4. For non-PoE devices, connect them to ports 1-4 or 5-6.
4. **Verify Connection:** Check the LED indicators on the switch for each connected port. A solid or blinking light indicates an active connection. Refer to the "Operating Modes and Indicators" section for LED indicator details.



Video 1: NICGIGA-US 10Gb Network Switch Overview. This video demonstrates the setup and functionality of a similar 10Gb network switch, highlighting port types and connectivity.

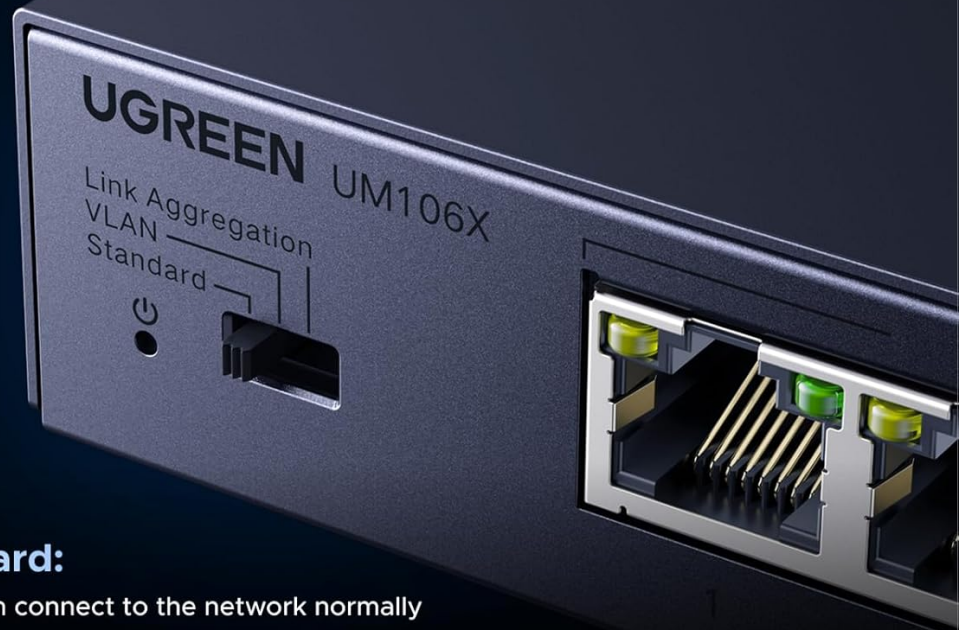


Video 2: BrosTrend 5-Port 2.5G Ethernet Switch Installation Guide. This video provides a visual guide for installing a 2.5G Ethernet switch, applicable to the UGREEN 2.5Gb switch.

4. OPERATING MODES AND INDICATORS

4.1 UGREEN UM106X (2.5Gb/10Gb SFP+ Switch)

Easily Switch Between Three Modes



1. Standard:

All ports can connect to the network normally

2. VLAN:

Building a virtual LAN or avoiding network storms

3. Link Aggregation:

Establish dual-port bandwidth aggregation and increase network backup

Figure 3: UGREEN UM106X Mode Switch and LED Indicators

The UM106X features a physical switch to select between three operating modes:

- **Standard Mode:** Default mode where all ports function as standard network ports, allowing all connected devices to communicate freely.
- **VLAN Mode:** Ports 1-4 are isolated from each other but can communicate with ports 5 and 6 (uplink ports). This helps in segmenting the network and preventing broadcast storms.
- **Link Aggregation Mode:** Allows combining multiple network connections in parallel to increase throughput beyond what a single connection could sustain, and to provide redundancy.

LED Indicators: Each port has LED indicators to show connection status and speed. Consult the product's quick start guide for specific color and blinking patterns indicating 10/100/1000Mbps, 2.5Gbps, or 10Gbps link speeds.

4.2 UGREEN UG206P (PoE+ Gigabit Switch)

One-Touch, Three Modes

- **Standard:**
Gigabit auto-negotiation, compatible with IEEE 802.3af/at
- **VLAN:**
Ports 1–4 are isolated but can communicate with ports 5–6, enhancing network control and preventing storms
- **Extended:**
Supports PoE with transmission up to 820FT, ideal for security and remote network coverage



Figure 4: UGREEN UG206P Mode Switch and LED Indicators

The UG206P also features a physical switch for three operating modes:

- **Standard Mode:** All ports operate at Gigabit speeds with auto-negotiation. PoE functionality is active on ports 1-4.
- **VLAN Mode:** Ports 1-4 are isolated from each other but can communicate with ports 5 and 6 (uplink ports). This mode is useful for network segmentation and security.
- **Extend Mode:** Extends the PoE transmission distance for ports 1-4 up to 820 feet (250 meters) at 10Mbps. This is ideal for long-distance PoE applications like security cameras.

Intelligent Power Management: The switch automatically detects PoE devices. If the total power consumption exceeds 60W, the switch will cut power to ports in priority order (Port 4, then 3, then 2, then 1) to prevent overload. Short-circuited ports will shut off independently to protect the device and connected equipment.

LED Indicators: Each port has LED indicators for Link/Act (connection status) and PoE status. Consult the product's quick start guide for specific color and blinking patterns.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Placement:** Place the switch in a cool, dry, and well-ventilated area. Avoid direct sunlight, heat sources, and excessive moisture. Ensure adequate space around the device for proper airflow.
- **Cable Management:** Organize network cables to prevent tangles and ensure proper connection. Avoid bending cables sharply.
- **Firmware Updates:** Periodically check the UGREEN official website for any available firmware updates for your specific model to ensure optimal performance and security.

6. TROUBLESHOOTING

- **No Power:**

- Ensure the power adapter is securely connected to the switch and a working power outlet.
- Verify the power outlet is functional by plugging in another device.

- **No Link/Activity LED:**

- Check if the Ethernet cable is securely connected to both the switch port and the connected device.
- Try a different Ethernet cable to rule out cable damage.
- Ensure the connected device is powered on and functioning correctly.
- For UM106X, ensure the mode switch is set appropriately for your network configuration.

- **Slow Network Speed:**

- Ensure you are using Cat6 or higher Ethernet cables for 2.5Gb/10Gb connections (UM106X) and Cat5e or higher for Gigabit connections (UG206P).
- Verify that your connected devices (e.g., PC, NAS) support 2.5Gb or 10Gb speeds if using the UM106X.
- Check for network congestion. Disconnect unnecessary devices to see if performance improves.
- For UG206P in Extend Mode, speeds are limited to 10Mbps. Ensure you are in the correct mode for your application.

- **PoE Device Not Powering On (UG206P):**

- Ensure the device is PoE-compatible (IEEE 802.3af/at standard).
- Check the total power budget (60W) and individual port power limit (30W). If too many high-power devices are connected, some may not receive power.
- Try connecting the PoE device to a different PoE port.
- Ensure the switch is in Standard or VLAN mode, not Extend mode, unless the device is specifically designed for extended PoE.

7. SPECIFICATIONS

7.1 UGREEN UM106X 6-Port 2.5Gb/10Gb SFP+ Unmanaged Switch

Feature	Description
Model	UM106X
Ports	5 x 2.5Gb RJ45, 1 x 10Gb SFP+

Feature	Description
Data Transfer Rate	10/100/1000Mbps, 2.5Gbps, 10Gbps (SFP+)
Switching Capacity	30Gbps
Power Supply	12V/1A DC Adapter
Housing	Metal
Fanless	Yes


7.2 UGREEN UG206P 6-Port PoE+ Gigabit Unmanaged Switch






Feature	Description
Model	UG206P
Ports	4 x PoE+ Gigabit RJ45, 2 x Gigabit RJ45 Uplink
PoE Standard	IEEE 802.3af/at
Max Power per Port	30W
Total PoE Power Budget	60W
Data Transfer Rate	10/100/1000Mbps
Extend Mode Distance	Up to 820ft (250m) at 10Mbps
Housing	Metal

8. WARRANTY AND SUPPORT

UGREEN products typically come with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official UGREEN website for detailed warranty information and terms. For technical support, troubleshooting assistance, or any product-related inquiries, please contact UGREEN customer service through their official channels.

Related Documents - UM106X, UG206P

	<p>UGREEN USB-C to RJ45 Gigabit Ethernet Adapter User Manual</p> <p>Official user manual for the UGREEN USB-C to RJ45 Gigabit Ethernet Adapter, including package contents, important notes, warranty information, contact details, and FCC compliance.</p>
---	---

	<p>UGREEN CM475 USB-C Hub User Manual - Ethernet & USB 3.0 Ports</p> <p>Comprehensive user manual for the UGREEN CM475 USB-C hub, detailing its features, specifications, setup, and warranty information. Connect to Ethernet and expand USB 3.0 ports.</p>
	<p>UGREEN DisplayLink Driver Installation Guide for macOS</p> <p>A comprehensive guide to installing the UGREEN DisplayLink driver on macOS, ensuring proper functionality for docking stations and external displays.</p>
	<p>UGREEN USB-C Multifunction Adapter CM252 User Manual and Specifications</p> <p>Comprehensive user guide for the UGREEN CM252 USB-C Multifunction Adapter, covering setup, driver installation, product specifications, precautions, warranty, and FCC compliance.</p>
	<p>UGREEN Thunderbolt 4 Docking Station U708 User Guide</p> <p>User guide for the UGREEN Thunderbolt 4 Docking Station, Model U708. Provides instructions on connection, display settings, troubleshooting common issues, safety notices, and after-sales service.</p>
	<p>UGREEN USB-C Docking Station CM615 User Guide</p> <p>User guide for the UGREEN USB-C Docking Station, Model CM615. This guide covers driver installation, resolution and graphics settings for Windows and macOS, frequently asked questions, notices, and after-sales service.</p>