

10Gtek G0200-SFP

10Gtek G0200-SFP 10GBase Media Converter User Manual

Model: G0200-SFP (Kit #31)

1. INTRODUCTION

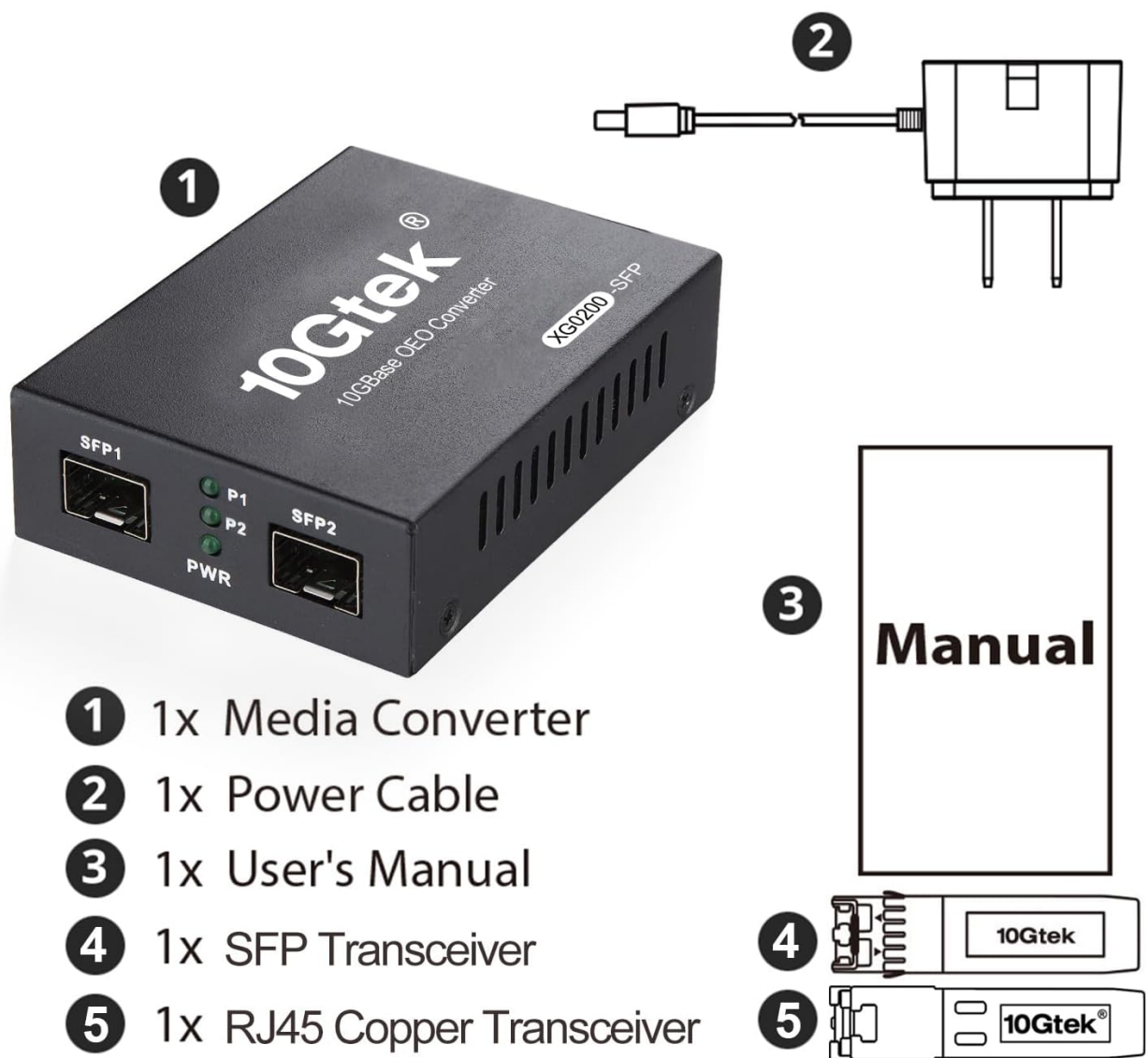
The 10Gtek G0200-SFP is a high-performance 10GBase Media Converter designed to bridge 10 Gigabit Ethernet (10GbE) fiber optic connections with 10GBase-T copper connections. This device facilitates the conversion between SFP+ fiber modules and SFP+ RJ45 copper modules, extending network reach and integrating different network media types. It is equipped with two SFP+ slots, supporting both 10GBase-T and 10GBase-SR transceivers for versatile deployment.

This manual provides detailed instructions for the installation, operation, and maintenance of your 10Gtek G0200-SFP Media Converter.

2. PACKAGING LIST

Verify the contents of your package against the list below. If any items are missing or damaged, please contact your vendor.

Packaging list



- ① 1x Media Converter
- ② 1x Power Cable
- ③ 1x User's Manual
- ④ 1x SFP Transceiver
- ⑤ 1x RJ45 Copper Transceiver

Image: Contents of the 10Gtek G0200-SFP Media Converter package, showing the converter, power cable, user manual, SFP transceiver, and RJ45 copper transceiver.

1. 1x 10GBase Media Converter (G0200-SFP)
2. 1x Power Adapter
3. 1x User's Manual (this document)
4. 1x 10GBase-SR SFP+ Transceiver (for fiber connection, 300m, MMF, 850nm)
5. 1x 10GBase-T SFP+ Transceiver (for RJ45 copper connection, 30m, CAT.6a/7)

3. PRODUCT OVERVIEW

The 10Gtek G0200-SFP Media Converter is a compact device designed for reliable 10GbE network extension and media conversion. It features two SFP+ slots, allowing for flexible deployment with various SFP+ transceivers.



Image: Front view of the 10Gtek G0200-SFP Media Converter, showing SFP1, SFP2 ports, and LED indicators.

3.1 Key Features

- 10GBase OEO (Optical-Electrical-Optical) conversion.
- Two SFP+ slots for flexible transceiver deployment.
- Supports 10GBase-T SFP+ for copper connections (up to 30 meters over CAT.6a/7).
- Supports 10GBase-SR SFP+ for multi-mode fiber connections (up to 300 meters over OM3 MMF).
- Low power consumption: $\leq 5W$.
- External DC 5V-1A power supply.

3.2 LED Indicators

Visualized LED Indicator

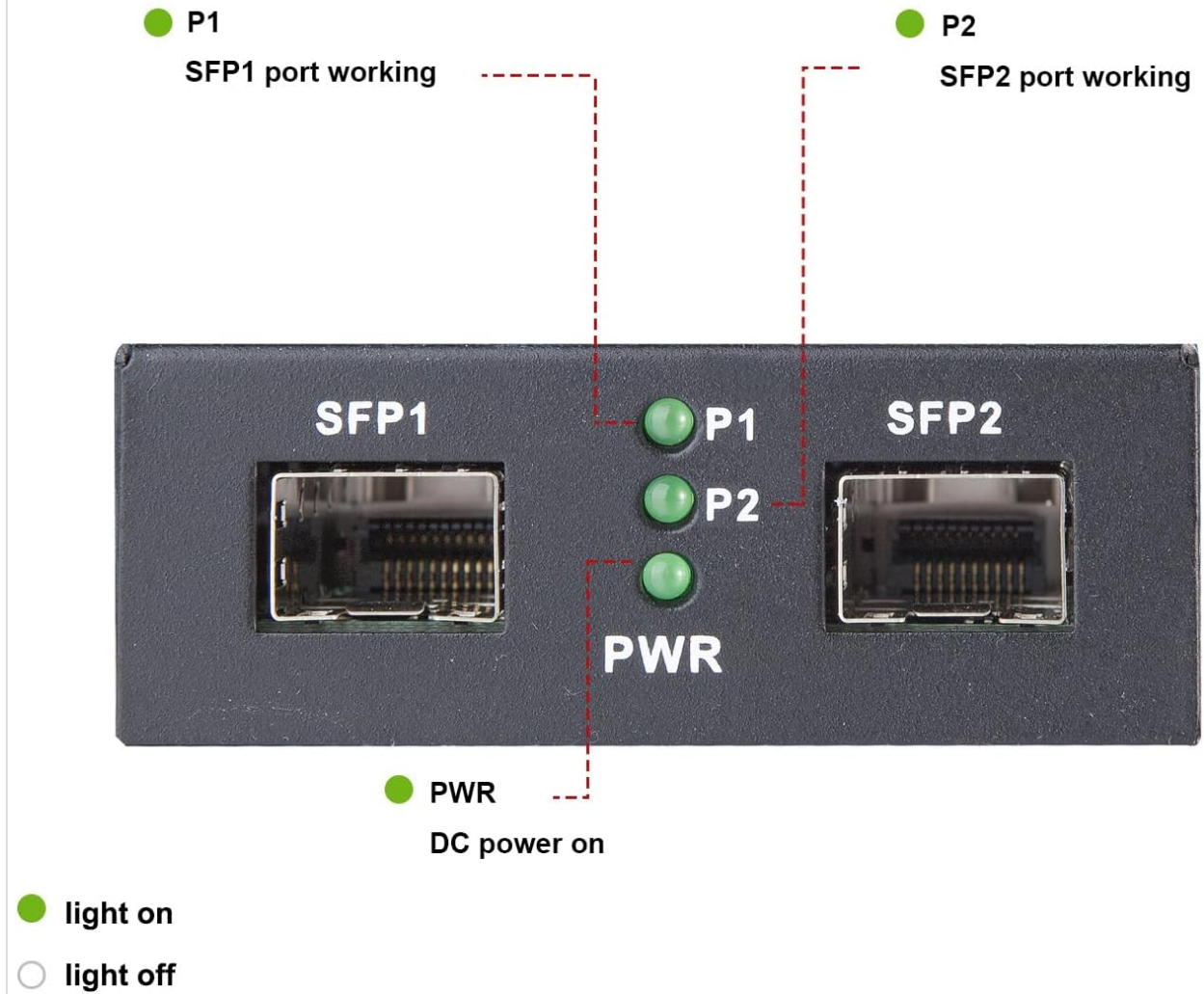


Image: Visual representation of the LED indicators and their functions: PWR, P1, and P2.

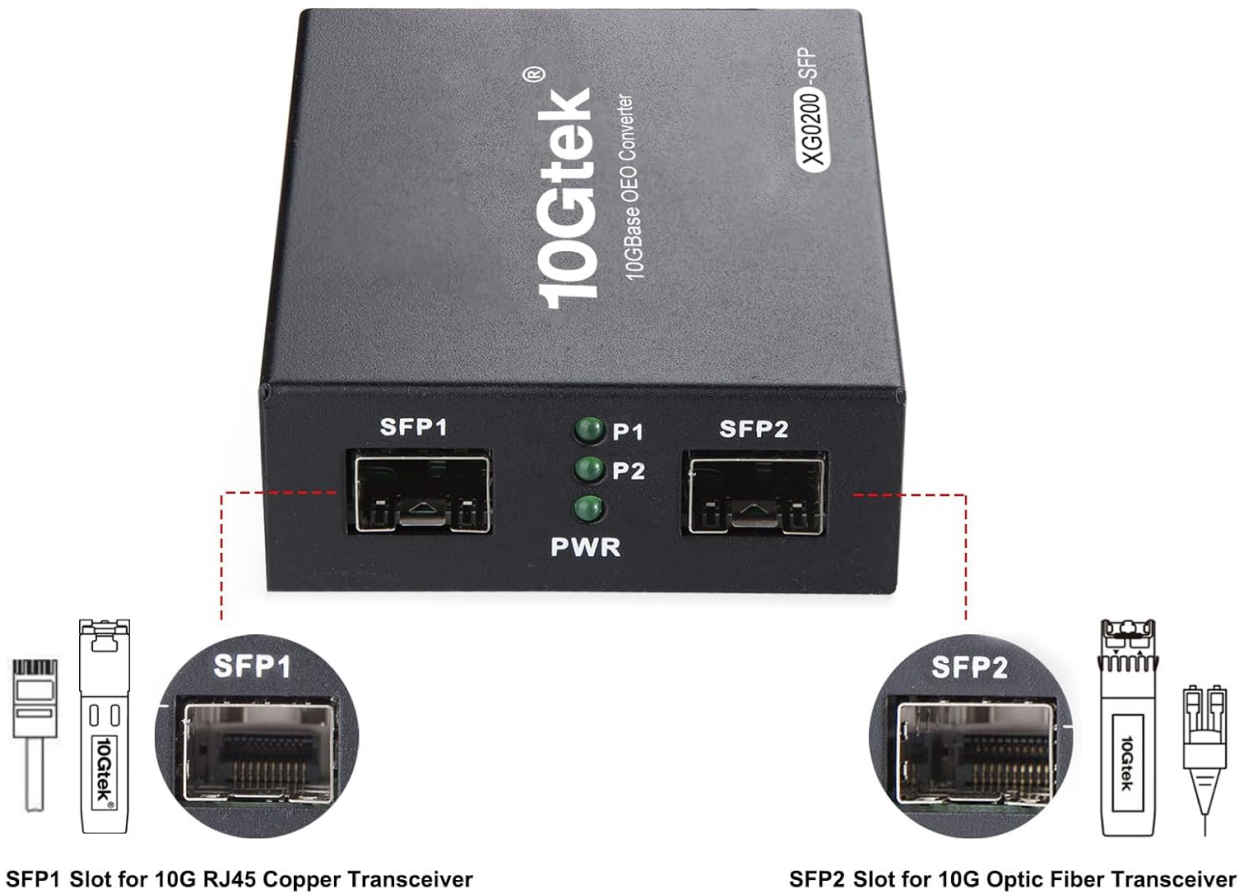
- **PWR (Power):** Green light indicates the device is receiving DC power.
- **P1 (SFP1 Port):** Green light indicates the SFP1 port is active and linked.
- **P2 (SFP2 Port):** Green light indicates the SFP2 port is active and linked.

4. SETUP AND INSTALLATION

Follow these steps to properly set up your 10Gtek G0200-SFP Media Converter.

SFP Slot With Transceiver

1-year
Warranty



SFP1 Slot for 10G RJ45 Copper Transceiver

SFP2 Slot for 10G Optical Fiber Transceiver

Image: Close-up of the SFP1 and SFP2 slots, showing where the RJ45 copper and optic fiber transceivers are inserted.

1. **Power Connection:** Connect the provided power adapter to the DC 5V-1A input port on the media converter and then plug it into a suitable power outlet. The PWR LED should illuminate green.

2. **Transceiver Installation:**

- Insert the 10GBase-T SFP+ RJ45 copper transceiver into the SFP1 slot. Ensure it clicks securely into place.
- Insert the 10GBase-SR SFP+ fiber transceiver into the SFP2 slot. Ensure it clicks securely into place.

3. **Network Cable Connection:**

- Connect a CAT.6a or CAT.7 Ethernet cable from your 10GBase-T device (e.g., switch, server) to the RJ45 port of the transceiver in SFP1.
- Connect a compatible multi-mode fiber optic cable (e.g., OM3) from your 10GbE fiber device to the LC ports of the transceiver in SFP2.

10G Media Converter Application (SFP)

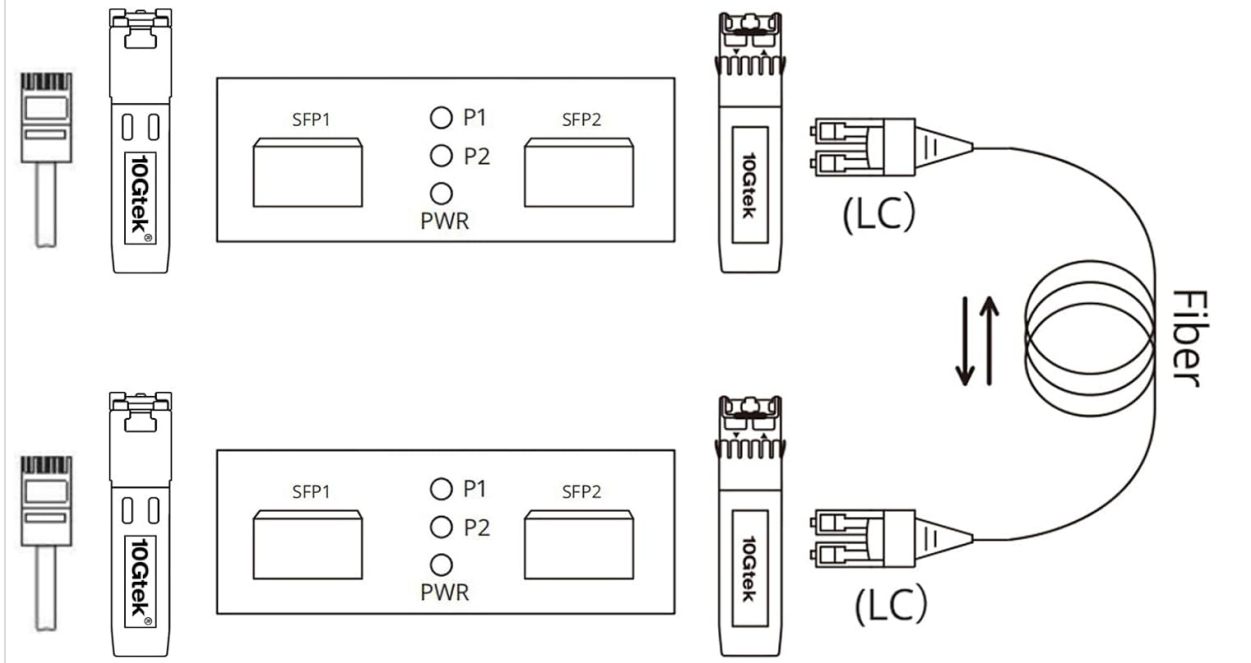


Image: Diagram illustrating a typical application scenario for the media converter, showing connections between two converters via fiber and to network devices via RJ45.

Once all connections are made, the P1 and P2 LEDs should illuminate green, indicating active links on both SFP+ ports.

5. OPERATING INSTRUCTIONS

The 10Gtek G0200-SFP Media Converter operates automatically once powered on and connected. No software configuration is typically required for basic media conversion.

5.1 Monitoring Status with LED Indicators

Observe the LED indicators on the front panel to monitor the operational status of the device:

- **PWR (Green):** Constantly lit when the device is powered on. If off, check the power adapter and connection.
- **P1 (Green):** Lit when the SFP1 port (with the RJ45 transceiver) has an active link to a network device. If off, check the Ethernet cable and the connected device.
- **P2 (Green):** Lit when the SFP2 port (with the fiber transceiver) has an active link to a fiber network device. If off, check the fiber optic cable and the connected device.

A stable green light on P1 and P2 indicates a successful 10GbE link on both sides of the converter.

6. MAINTENANCE

To ensure optimal performance and longevity of your media converter, follow these maintenance guidelines:

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Environment:** Operate the device within the specified temperature and humidity ranges (0~50°C, 5%~80% relative humidity). Avoid exposing it to direct sunlight, excessive heat, or moisture.
- **Ventilation:** Ensure proper airflow around the device. Do not block the ventilation slots.
- **Cable Management:** Ensure all cables are properly routed and not under strain. Avoid sharp bends in fiber optic cables.
- **Power Supply:** Use only the provided power adapter or a compatible replacement with the correct voltage and current ratings (DC 5V-1A).

7. TROUBLESHOOTING

If you encounter issues with your 10Gtek G0200-SFP Media Converter, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No Power (PWR LED off)	Power adapter not connected or faulty; power outlet not working.	Check power adapter connection. Try a different power outlet. Ensure the power adapter is DC 5V-1A.
SFP1/P1 LED off	RJ45 cable disconnected or faulty; 10GBase-T transceiver not properly seated or faulty; connected device is off or not linked.	Ensure the RJ45 cable is securely connected. Check the cable for damage. Re-seat the 10GBase-T transceiver. Verify the connected network device is powered on and functioning.
SFP2/P2 LED off	Fiber optic cable disconnected or faulty; 10GBase-SR transceiver not properly seated or faulty; connected device is off or not linked.	Ensure the fiber optic cable is securely connected and clean. Check the cable for damage (e.g., sharp bends). Re-seat the 10GBase-SR transceiver. Verify the connected fiber network device is powered on and functioning.
Poor Performance/Slow Speed	Incorrect cable type or length; transceiver incompatibility; network congestion.	Ensure CAT.6a/7 cables are used for 10GBase-T and OM3 MMF for 10GBase-SR within specified distances. Verify transceiver compatibility. Check for network congestion on connected devices.

If the problem persists after trying these solutions, please contact 10Gtek customer support.

8. SPECIFICATIONS

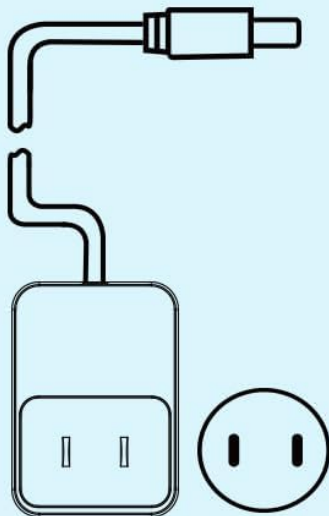
Feature	Detail
Brand	10Gtek
Model	G0200-SFP (Kit #31)

Feature	Detail
Product Number	G0200-SFP(kit #31)-EU
Interface	2 x SFP+ slots
Included Transceivers	1x 10GBase-T SFP+ (RJ45, 30m, CAT.6a/7) 1x 10GBase-SR SFP+ (LC, 300m, OM3 MMF, 850nm)
Power Consumption	≤ 5W
Power Supply	DC 5V-1A (External Adapter)
Operating Temperature	0~50°C (32~122°F)
Relative Humidity	5%~80% (non-condensing)
Dimensions (L x W x H)	16.3 x 11.4 x 4.5 cm (approx.)
Weight	340 g (approx.)
Compatible Devices	Desktop systems, network switches, servers with 10GbE capabilities.

Power Adapter for UL



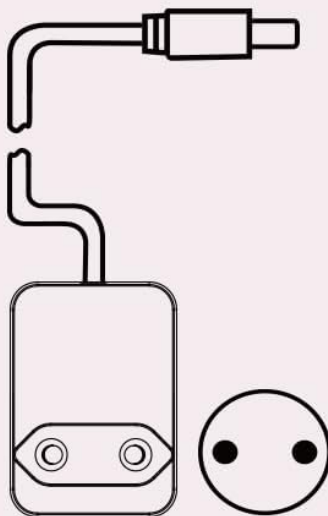
5V === 1000mA



Power Adapter for EU



5V === 1000mA



Power Adapter for UK



5V === 1000mA

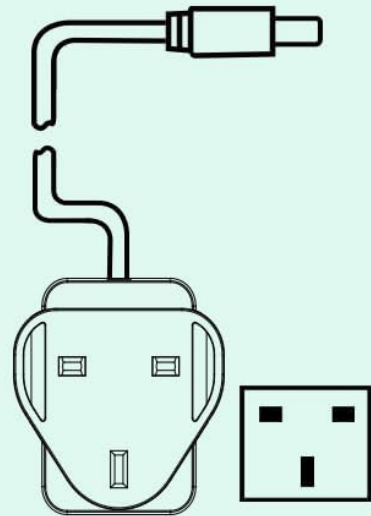


Image: Illustration of compatible power adapter types, highlighting the EU standard for the included adapter.

9. WARRANTY INFORMATION

The 10Gtek G0200-SFP Media Converter comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage caused by:

- Improper installation or operation.
- Unauthorized modifications or repairs.
- Accidents, abuse, or misuse.
- Natural disasters or power surges.

Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact 10Gtek customer support through the official website or your point of purchase.

When contacting support, please have the following information ready:

- Product Model: G0200-SFP (Kit #31)
- Date of Purchase
- Detailed description of the issue