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HPC Optics ALU-10G-AOC10M-HPC

HPC Optics Compatible with Alcatel 10G SFP+ to SFP+ 10m Active Optical Cable (AOC)

INSTRUCTION MANUAL

Product Overview

This manual provides essential information for the proper installation, operation, and maintenance of your HPC Optics 10G SFP+ to SFP+ 10m Active Optical Cable (AOC). This cable is designed for high-speed data transmission in networking environments, offering full compatibility with Alcatel systems.



An image showing the HPC Optics 10G SFP+ to SFP+ 10m Active Optical Cable, highlighting its SFP+ connectors and the

cable itself. This active optical cable facilitates high-speed data transfer between compatible network devices.

Setup

1. **Unpacking:** Carefully remove the Active Optical Cable (AOC) from its packaging. Inspect the cable and connectors for any visible damage.
2. **Compatibility Check:** Ensure that your network equipment (e.g., switches, servers, network interface cards) has SFP+ ports and supports 10 Gigabit Ethernet (10GbE) connectivity. This cable is specifically designed for compatibility with Alcatel systems.
3. **Connector Orientation:** Identify the SFP+ connectors on both ends of the AOC. These connectors are designed to be inserted in a specific orientation.
4. **Insertion:** Gently insert one SFP+ connector into an available SFP+ port on your first network device. Apply firm, even pressure until the connector clicks into place. Repeat this step for the other end of the AOC into the SFP+ port of your second network device.
5. **Secure Connection:** Ensure both connectors are fully seated and secured. A proper connection is crucial for reliable data transmission.
6. **Power On:** Once the cable is securely connected between the two devices, power on or restart your network equipment as required. The devices should automatically detect the 10Gbps link.

Note: Active Optical Cables contain integrated electronics and require power from the host device's SFP+ port to function. No external power supply is needed.

Operating Instructions

The HPC Optics 10G SFP+ AOC is a plug-and-play device. Once properly installed, it functions as a direct high-speed data link between two compatible network devices. No software configuration or driver installation is typically required for the cable itself.

- **Link Status:** Observe the link/activity indicator LEDs on your network devices' SFP+ ports. A solid green or amber light typically indicates a successful link, while a blinking light signifies data activity. Refer to your device's manual for specific LED interpretations.
- **Data Transmission:** The cable will automatically establish a 10Gbps connection, enabling high-bandwidth data transfer between the connected devices.
- **Performance:** For optimal performance, ensure that both connected devices are configured to operate at 10Gbps and that their SFP+ ports are functioning correctly.

Maintenance

Proper care and handling will extend the lifespan and ensure the reliability of your AOC.

- **Handling:** Always handle the cable by its connectors, not by the cable itself. Avoid bending the cable sharply, especially near the connectors, as this can damage the internal optical fibers.
- **Cleaning:** Keep the SFP+ connectors clean. Dust and debris can impair optical performance. If cleaning is necessary, use a specialized fiber optic cleaning kit. Never use abrasive materials or solvents.
- **Storage:** When not in use, store the cable in a clean, dry environment. Use the protective caps provided with the connectors to prevent dust accumulation and damage.
- **Environmental Conditions:** Operate and store the cable within recommended temperature and humidity ranges to prevent degradation of materials.

Troubleshooting

If you encounter issues with your HPC Optics 10G SFP+ AOC, consider the following troubleshooting steps:

1. No Link Light:

- Ensure both SFP+ connectors are fully and correctly seated in their respective ports.
- Verify that both connected network devices are powered on and functioning.
- Check if the SFP+ ports on the devices are enabled and configured correctly.
- Try connecting the AOC to different SFP+ ports on your devices, if available.
- Test the AOC with known working SFP+ devices to rule out cable failure.

2. Slow Speed or Intermittent Connection:

- Inspect the connectors for any signs of dirt or damage. Clean if necessary using appropriate fiber optic cleaning tools.
- Ensure the cable is not excessively bent or kinked, which can degrade optical signal quality.
- Verify that the network devices are not experiencing other performance issues or heavy network load.
- Confirm that the devices' SFP+ ports are operating at 10Gbps and not auto-negotiating to a lower speed.

3. Compatibility Issues:

- While designed for Alcatel compatibility, ensure your specific Alcatel equipment model supports third-party SFP+ AOCs.
- Consult your network device's documentation for SFP+ module compatibility lists.

If problems persist after following these steps, contact HPC Optics customer support for further assistance.

Specifications

Model Number	ALU-10G-AOC10M-HPC
Product Type	Active Optical Cable (AOC)
Data Rate	10Gbps
Connectors	SFP+ to SFP+
Cable Length	10 Meters
Fiber Type	Multimode (MMF)
Compatibility	Alcatel (Fully Compatible)
Item Weight	0.8 ounces
Manufacturer	HPCoptics.com
ASIN	B01BUAICSA
Date First Available	July 8, 2016

Warranty and Support

HPC Optics stands behind the quality of its products.

- **Lifetime Warranty:** This HPC Optics Active Optical Cable is backed by a Lifetime Warranty, ensuring

long-term reliability and customer satisfaction. Please refer to the official HPC Optics website for full warranty terms and conditions.

- **Customer Support:** For technical assistance, troubleshooting, or warranty claims, please contact HPC Optics customer support. Contact information can typically be found on the manufacturer's official website or through your point of purchase.