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MikroTik S+85DLC03D

MikroTik S+85DLC03D SFP+ 10G Transceiver User Manual

1. Introduction

This manual provides comprehensive instructions for the MikroTik S+85DLC03D SFP+ 10G Transceiver. It covers product overview, installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device. Please read this manual thoroughly before using the product.

2. Product Overview

The MikroTik S+85DLC03D is a high-performance SFP+ transceiver designed for 10 Gigabit Ethernet applications over multi-mode fiber. It features an LC connector and operates at an 850nm wavelength, supporting distances of up to 300 meters. This module is compatible with MikroTik devices such as CCR1036-8G-2S+ and CCR1036-8G-2S+EM, as well as various non-MikroTik SFP devices.



An image showing the MikroTik S+85DLC03D SFP+ 10G Transceiver. The module is metallic silver with a black LC connector end. A white label on top displays 'MikroTik', 'S+85DLC03D', and 'SFP+ 10G 330m 850nm DDM', along with regulatory marks and

a QR code. The electrical connector pins are visible at the rear.

Key Features:

- **Data Rate:** 10 Gigabit Ethernet (10G)
- **Distance:** Up to 300 meters (984 feet)
- **Fiber Type:** Multi-Mode (MM)
- **Wavelength:** 850nm
- **Connector Type:** LC
- **Form Factor:** SFP+
- **Compatibility:** MikroTik CCR1036-8G-2S+, CCR1036-8G-2S+EM, and other compatible SFP devices.

3. Setup

Follow these steps to properly install the S+85DLC03D SFP+ transceiver into a compatible network device.

1. **Preparation:** Ensure the host device (switch, router, or network card) is powered off or the SFP+ port is disabled to prevent damage during installation.
2. **Insert Transceiver:** Gently slide the SFP+ transceiver into the designated SFP+ port on your network device. Ensure the module is oriented correctly. You should feel a slight click as it locks into place.
3. **Connect Fiber Cable:** Remove the protective dust caps from both the transceiver's LC connector and the multi-mode fiber optic cable. Carefully insert the LC connectors of the fiber cable into the transceiver's ports. Ensure a secure connection.
4. **Power On/Enable Port:** Power on your network device or enable the SFP+ port. The link status indicator on the device should illuminate, indicating a successful connection.

Important: Always handle fiber optic components with care. Avoid touching the optical interfaces, and keep dust caps on when not in use.

4. Operating Instructions

The MikroTik S+85DLC03D SFP+ transceiver is designed for plug-and-play operation. Once properly installed and connected, it will automatically establish a 10 Gigabit Ethernet link with a compatible device over multi-mode fiber.

- **Link Status:** Monitor the link status LEDs on your host network device. A solid green or amber light typically indicates an active and stable 10G link.
- **Data Transmission:** Data transmission will occur automatically once the link is established. No further configuration is typically required on the transceiver itself.
- **Compatibility:** Ensure that the connected fiber optic cable and the remote network device are also rated for 10G multi-mode operation at 850nm wavelength for optimal performance.

5. Maintenance

Proper maintenance ensures the longevity and reliable performance of your SFP+ transceiver.

- **Cleaning Optical Connectors:** Dust and contaminants on the optical interfaces are the most common cause of signal degradation. Use only approved fiber optic cleaning tools (e.g., lint-free wipes and isopropyl alcohol or specialized fiber cleaners) to clean the LC connector ends. Never use abrasive materials.
- **Dust Caps:** Always keep the protective dust caps on the transceiver's optical ports when it is not connected

to a fiber cable.

- **Storage:** Store the transceiver in a cool, dry, and dust-free environment when not in use. Keep it in its original anti-static packaging if possible.
- **Physical Inspection:** Periodically inspect the transceiver for any signs of physical damage. Do not use a damaged module.

6. Troubleshooting

If you encounter issues with your S+85DLC03D SFP+ transceiver, consider the following troubleshooting steps:

- **No Link Light:**
  - Verify the transceiver is fully seated in the SFP+ port.
  - Check that the fiber optic cable is securely connected at both ends.
  - Ensure the fiber cable is not damaged (e.g., kinks, sharp bends).
  - Confirm that the fiber cable is a multi-mode type and compatible with 850nm wavelength.
  - Test with a different, known-good fiber cable.
  - Try the transceiver in a different SFP+ port or a different compatible device.
  - Ensure the remote device is powered on and its SFP+ port is active.
- **Intermittent Link or Slow Speed:**
  - Clean the optical connectors of both the transceiver and the fiber cable.
  - Check the fiber cable for damage or excessive length beyond 300 meters.
  - Verify that both ends of the connection are configured for 10G speed.
  - Ensure the fiber cable meets the specifications for 10G multi-mode (e.g., OM3 or OM4).
- **Compatibility Issues:**
  - While compatible with many non-MikroTik devices, some devices may require specific vendor coding or firmware. Consult your host device's documentation.

7. Specifications

Specification	Value
Model Number	S+85DLC03D
Brand	MikroTik
Data Rate	10G
Distance	300m
Mode	Multi-Mode (MM)
Wavelength	850nm
Connector Type	LC Connector
Format	SFP+
Item Weight	0.01 ounces

Specification	Value
Product Dimensions (L x W x H)	5.91 x 5.91 x 5.91 inches

8. Warranty and Support

For warranty information and technical support, please refer to the official MikroTik website or contact your authorized MikroTik reseller. Keep your purchase receipt for warranty claims.
MikroTik Official Website: https://mikrotik.com/

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