

Synology E25G30-F2

Synology E25G30-F2 2-Port 25GbE SFP28 PCIe Network Adapter Instruction Manual

Model: E25G30-F2 | Brand: Synology

1. PRODUCT OVERVIEW

The Synology E25G30-F2 is a dual-port 25GbE network adapter designed to seamlessly integrate compatible Synology systems into 25GbE networks, enhancing their potential for high-performance storage applications.

Key Features:

- Two 25GbE ports support high-performance storage applications.
- Enables higher simultaneous throughput, port failover, and load balancing.
- Purpose-built for use with Synology systems.
- 5-year warranty.
- Requires DSM 7.1.1-42962 Update 5 or above for optimal functionality.

2. WHAT'S IN THE BOX

- 1 x Synology E25G30-F2 2-Port 25GbE SFP28 PCIe Network Adapter

3. SETUP AND INSTALLATION

This section provides general guidance for installing the Synology E25G30-F2 network adapter. For detailed, model-specific instructions, please refer to the official Synology documentation for your NAS model.

Compatibility:

- Compatible Devices: Synology Systems.
- Hardware Interface: PCI Express x16.
- Requires DSM 7.1.1-42962 Update 5 or above.

Installation Steps (General):

1. **Power Off and Disconnect:** Ensure your Synology NAS is completely powered off and disconnected from all power sources and network cables.
2. **Access PCIe Slot:** Depending on your Synology NAS model, you may need to remove the chassis cover or

access a dedicated expansion slot. Consult your NAS's user manual for precise instructions.

3. **Insert Network Adapter:** Carefully align the E25G30-F2 network adapter with the available PCIe slot and firmly press it down until it is securely seated.
4. **Secure Adapter:** Use the provided screws or retention mechanism to secure the adapter in place.
5. **Reassemble and Reconnect:** Replace the chassis cover, reconnect power and network cables, and power on your Synology NAS.
6. **DSM Configuration:** Once the NAS boots up, log into DiskStation Manager (DSM) to configure the new network interfaces.

4. OPERATING INSTRUCTIONS

After physical installation, the Synology E25G30-F2 network adapter requires configuration within Synology's DiskStation Manager (DSM).

Configuring 25GbE Ports in DSM:

1. **Access DSM:** Log into your Synology NAS using a web browser.
2. **Navigate to Network Settings:** Go to **Control Panel > Network > Network Interface**.
3. **Identify New Interfaces:** Your newly installed 25GbE ports (e.g., LAN5, LAN6) should appear as new network interfaces.
4. **Configure IP Settings:** Select each new interface and click **Edit** to configure its IP address, subnet mask, and other network settings according to your network environment. You can choose DHCP or manual configuration.
5. **Apply Settings:** Save your changes. The 25GbE connection should now be active.

Utilizing 25GbE for Performance:

- **High-Performance Storage:** Leverage the increased bandwidth for demanding tasks such as large file transfers, virtualization, and high-resolution video editing.
- **Link Aggregation:** If your network infrastructure supports it, configure link aggregation (LAG) to combine multiple 25GbE ports for even higher throughput and redundancy.
- **SSD Cache:** Consider implementing SSD cache on your Synology NAS to further accelerate random I/O performance, complementing the high-speed network connection.

5. MAINTENANCE

The Synology E25G30-F2 network adapter is designed for reliability and requires minimal maintenance.

- **Keep Firmware Updated:** Regularly update your Synology NAS's DSM to ensure the network adapter has the latest drivers and performance enhancements.
- **Environmental Conditions:** Ensure your NAS operates in a well-ventilated area to prevent overheating, which can affect the performance and lifespan of all internal components, including the network adapter.
- **Physical Inspection:** Periodically check the network cables for secure connections and signs of damage.

6. TROUBLESHOOTING

If you encounter issues with your Synology E25G30-F2 network adapter, consider the following troubleshooting steps:

- **No Link Light/Connection:**
 - Verify the network cable is securely connected to both the adapter and your 25GbE switch.
 - Ensure the 25GbE switch port is active and configured correctly.

- Try a different 25GbE cable.
- **Slow Performance:**
 - Check DSM's Resource Monitor for network utilization to identify bottlenecks.
 - Confirm that your network infrastructure (switch, cables, client devices) supports 25GbE speeds.
 - Ensure DSM and network adapter drivers are up to date.
- **Adapter Not Detected in DSM:**
 - Power off the NAS, reseal the E25G30-F2 adapter in its PCIe slot, and restart.
 - Verify your Synology NAS model is compatible with the E25G30-F2.
 - Ensure your DSM version meets the minimum requirement (7.1.1-42962 Update 5 or above).

7. SPECIFICATIONS

Brand	Synology
Model Number	E25G30-F2
Hardware Interface	PCI Express x16
Data Transfer Rate	25 Gigabits Per Second
Ports	2 x 25GbE SFP28
Compatible Devices	Synology Systems
Compatible OS Family	Linux (Requires DSM 7.1.1-42962 Update 5 or above)
Product Dimensions	17.72 x 11.02 x 9.84 inches
Item Weight	6.9 ounces (0.43 Pounds)
UPC	846504005055

8. WARRANTY AND SUPPORT

Warranty:

The Synology E25G30-F2 network adapter comes with a 5-year warranty.

Support:

For further assistance, technical support, or to access the latest documentation and compatibility lists, please visit the official Synology website or contact Synology customer support.

9. PRODUCT MEDIA

Images:

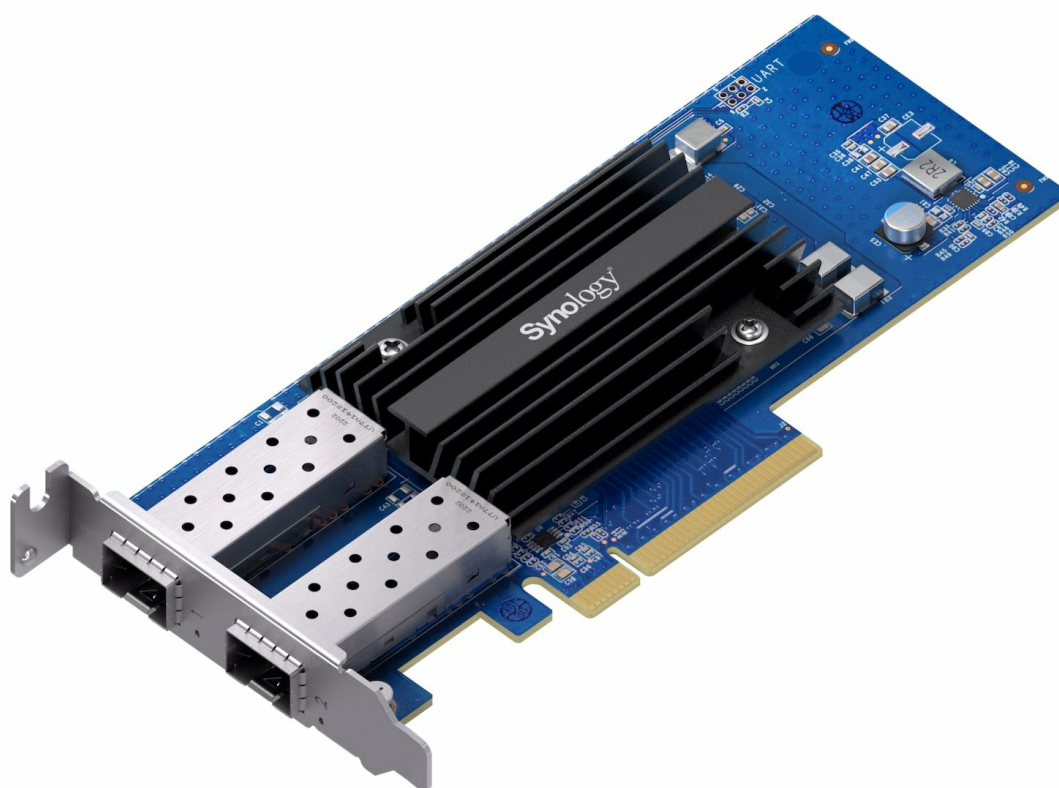


Figure 1: Front view of the Synology E25G30-F2 2-Port 25GbE SFP28 PCIe Network Adapter.

Synology®

E25G30-F2

Boost throughput and speed with a dual-port
25GbE add-on card



Figure 2: Diagram showing the Synology E25G30-F2 as a dual-port 25GbE add-on card for connectivity upgrades.

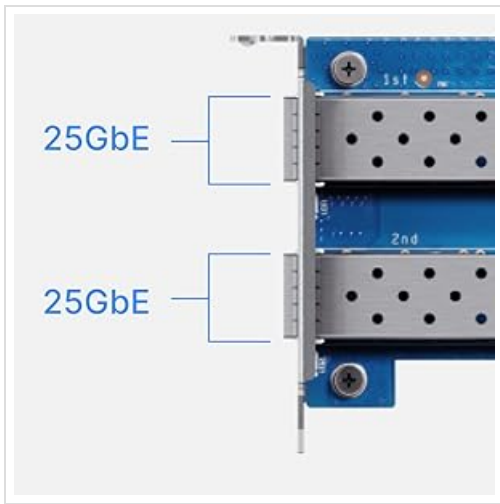


Figure 3: Close-up view of the Synology E25G30-F2 highlighting its two 25GbE SFP28 ports.



Figure 4: The Synology E25G30-F2 network adapter installed in a compatible Synology NAS system.

Videos:

Product Demonstration Video

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Video 1: A demonstration of the Synology E25G30-F2 network adapter, showcasing its features and installation process. This video provides a visual guide to understanding the product's functionality and integration.

Product Overview Video

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Video 2: An overview of the Synology E25G30-F2, detailing its design, key benefits, and how it enhances Synology NAS performance. This video offers a concise summary of the product's value proposition.