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Synology E10G30-T2

Synology E10G30-T2 Dual-Port 10GbE Network Card User Manual

Model: E10G30-T2

Product Overview Package Contents System Requirements Installation Configuration Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Synology E10G30-T2 is a dual-port 10 Gigabit Ethernet (10GbE) network adapter designed to enhance the network connectivity of compatible Synology NAS or server systems. This PCIe 3.0 adapter card features two RJ45 ports, each capable of supporting data transfer rates up to 10 Gb/s. It facilitates high-throughput data transfers and offers redundancy options. For increased performance, the two ports can be combined using link aggregation to achieve up to 20 Gb/s throughput.

Key Features:

- **10GbE Connectivity:** Provides high-speed network performance for demanding applications.
- **Dual RJ45 Ports:** Offers two 10 Gigabit Ethernet ports for flexible network configurations.
- **PCIe 3.0 Interface:** Ensures compatibility with modern server and NAS expansion slots.
- **Link Aggregation Support:** Allows combining both ports for increased bandwidth up to 20 Gb/s.
- **Backward Compatibility:** RJ45 connectors are compatible with legacy Ethernet networks (1GbE, 2.5GbE, 5GbE).
- **Designed for Synology Systems:** Optimized for performance and reliability within Synology environments.



Figure 1: Synology E10G30-T2 Dual-Port 10GbE Network Card, showing the two RJ45 ports, the heatsink with Synology branding, and the PCIe connector.

2. Package Contents

Verify that all items are present in the package:

- Synology E10G30-T2 Dual-Port 10GbE Network Card
- Quick Installation Guide (if included)
- Low-profile bracket (if included for smaller chassis)

3. System Requirements

- Compatible Synology NAS or server with an available PCIe 3.0 x4 slot (or higher).
- Operating system with appropriate driver support (typically integrated into Synology DSM).
- 10GbE compatible network switch or direct connection to another 10GbE device for full speed.
- Ethernet cables (Cat6a or Cat7 recommended for 10GbE).

4. Installation

Follow these steps to install the Synology E10G30-T2 network card into your compatible Synology NAS or server. Always refer to your specific Synology device's documentation for detailed instructions on opening the chassis and accessing PCIe slots.

1. **Power Off System:** Completely shut down your Synology NAS or server and disconnect all power cables.
2. **Open Chassis:** Carefully open the chassis of your Synology device according to its user manual.
3. **Locate PCIe Slot:** Identify an available PCIe 3.0 x4 (or larger) expansion slot.
4. **Remove Slot Cover:** Remove the metal slot cover corresponding to the chosen PCIe slot.
5. **Insert Network Card:** Align the E10G30-T2 network card with the PCIe slot. Gently but firmly press the card into the slot until it is fully seated. Ensure the bracket is flush with the chassis opening.
6. **Secure Card:** Secure the network card with the screw or retention mechanism provided by your Synology device.
7. **Close Chassis:** Reassemble the chassis of your Synology device.
8. **Reconnect Power:** Reconnect all power cables and network cables.
9. **Power On System:** Power on your Synology NAS or server.



Figure 2: The Synology E10G30-T2 network card, highlighting the PCIe connector for insertion into an expansion slot.

5. Configuration

After physical installation, the network card typically requires minimal configuration within Synology DiskStation Manager (DSM).

1. **Access DSM:** Log in to your Synology NAS DSM interface via a web browser.
2. **Network Interface Recognition:** Navigate to **Control Panel** > **Network** > **Network Interface**. The newly installed 10GbE ports should appear as new LAN interfaces (e.g., LAN 3, LAN 4).
3. **Configure IP Settings:** Configure the IP address settings for the new interfaces (DHCP or static IP) as required by your network environment.
4. **Link Aggregation (Optional):** If you intend to use link aggregation for increased bandwidth or redundancy, navigate to the **Bond** tab and follow the instructions to create a new bond using the 10GbE interfaces. Ensure your network switch supports the chosen link aggregation protocol (e.g., LACP).
5. **Test Connectivity:** Verify network connectivity and performance by transferring large files or running network diagnostic tools.

6. Operation

Once installed and configured, the Synology E10G30-T2 operates as a standard network interface, providing high-speed data transfer capabilities to your Synology NAS or server. Its operation is largely transparent, managed by the Synology DSM operating system.

- **Status Indicators:** Observe the LED indicators on the network card's RJ45 ports for link status and activity. Typically, a solid green or amber light indicates a link, and a blinking light indicates data activity.
- **Performance Monitoring:** Monitor network performance through DSM's Resource Monitor to ensure optimal utilization of the 10GbE connection.

7. Maintenance

The Synology E10G30-T2 network card requires minimal maintenance. Adhering to general best practices for electronic components will ensure its longevity and reliable operation.

- **Keep Clean:** Ensure the interior of your Synology NAS/server remains free of dust to prevent overheating and maintain optimal performance of all components, including the network card.
- **Airflow:** Ensure adequate airflow around your Synology device to dissipate heat effectively.

- **Firmware Updates:** Keep your Synology DSM operating system updated to ensure the latest drivers and compatibility for the network card.
- **Cable Management:** Use high-quality Ethernet cables (Cat6a or Cat7 for 10GbE) and ensure they are not excessively bent or strained.

8. Troubleshooting

If you encounter issues with your Synology E10G30-T2 network card, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Card not detected in DSM	• Card not fully seated in PCIe slot. • Incompatible PCIe slot. • System not powered off during installation.	• Shut down, reseat the card firmly. • Verify PCIe slot compatibility with your Synology model. • Ensure system was fully powered off before installation.
No link light / No network connectivity	• Faulty Ethernet cable. • Network switch port issue. • Incorrect IP configuration. • Driver issue (less common with DSM).	• Try a different Ethernet cable. • Connect to a different port on the switch or a different switch. • Verify IP settings in DSM. • Ensure DSM is up to date.
Slow network speeds	• Using incorrect cable type (e.g., Cat5e for 10GbE). • Network congestion. • Connected device not 10GbE compatible. • Link aggregation misconfiguration.	• Use Cat6a or Cat7 cables for 10GbE. • Check other network devices for high usage. • Ensure all connected devices support 10GbE. • Review link aggregation settings on both NAS and switch.

For further assistance, consult the Synology Knowledge Base or contact Synology Technical Support.

9. Specifications

Feature	Detail
Model Number	E10G30-T2
Brand	Synology
Hardware Interface	PCIe 3.0 x4 (compatible with x8, x16 slots)
Network Ports	2 x RJ45
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet, 2.5 Gigabit Ethernet, 5 Gigabit Ethernet, 10 Gigabit Ethernet
Data Transfer Rate	Up to 10 Gbps per port (20 Gbps with Link Aggregation)
Compatible Devices	Synology NAS and servers with compatible PCIe slots
Product Dimensions	5.12"L x 8.86"W x 1.57"H (13 x 22.5 x 4 cm)
Item Weight	7 ounces (0.2 kg)

Color	Black / Blue PCB

10. Warranty and Support

Synology products are backed by a limited warranty. For specific warranty terms and conditions applicable to your region and product, please refer to the official Synology website.

Technical Support:

For technical assistance, driver downloads, or further product information, please visit the official Synology Support website: https://www.synology.com/support
You can also find frequently asked questions (FAQs) and community forums on their support portal.

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