

Intel X520-DA2

Intel Ethernet Converged Network Adapter X520-DA2 User Manual

Model: X520-DA2 (E10G42BTDABLK)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Intel Ethernet Converged Network Adapter X520-DA2. This adapter is designed to deliver high-performance 10 Gigabit Ethernet connectivity for servers and workstations, utilizing a PCI Express 2.0 x8 interface.

SAFETY INFORMATION

Always observe standard electrostatic discharge (ESD) precautions when handling the network adapter. Ensure your system is powered off and unplugged before installation. Refer to your computer or server's documentation for specific safety guidelines regarding internal component installation.

SETUP AND INSTALLATION

1. System Requirements

- Available PCI Express 2.0 x8 slot or higher.
- Compatible operating system (e.g., Windows Server, Linux distributions, VMware ESXi).
- SFP+ transceivers or Direct Attach Copper (DAC) cables for 10GbE connectivity (sold separately).

2. Physical Installation

1. **Power Off System:** Shut down your computer or server and disconnect the power cord.
2. **Open Chassis:** Remove the system cover to access the internal components.
3. **Locate PCIe Slot:** Identify an available PCI Express 2.0 x8 or larger slot.
4. **Remove Slot Cover:** Remove the metal slot cover corresponding to the chosen PCIe slot.

5. **Insert Adapter:** Carefully align the Intel X520-DA2 adapter with the PCIe slot and press firmly until it is fully seated. Ensure the bracket is secured to the chassis.
6. **Close Chassis:** Replace the system cover and reconnect the power cord.



This image shows the Intel Ethernet Converged Network Adapter X520-DA2. It features a green PCB, a silver heatsink covering the main chip, and two SFP+ ports on the metal bracket for high-speed fiber optic or direct attach copper connections. The card is designed for a PCI Express slot.

3. Driver Installation

Upon system startup, the operating system may automatically detect and install generic drivers. For optimal performance and full functionality, it is recommended to download and install the latest drivers directly from the official Intel support website. Search for drivers specific to the X520-DA2 model and your operating system.

OPERATING THE NETWORK ADAPTER

1. Connecting Cables

Connect appropriate SFP+ transceivers or Direct Attach Copper (DAC) cables to the two SFP+ ports on the adapter. Ensure the cables are securely connected to your 10 Gigabit Ethernet switch or other network devices.

2. Network Configuration

After driver installation, configure the network adapter settings within your operating system. This typically involves:

- Assigning IP addresses (static or DHCP).
- Configuring subnet masks and gateways.
- Setting up advanced features like VLANs, Jumbo Frames, or Link Aggregation (if supported by your operating system and network infrastructure).

Refer to your operating system's network configuration documentation for detailed steps.

MAINTENANCE

The Intel X520-DA2 network adapter is designed for reliable operation with minimal maintenance. Key maintenance practices include:

- **Driver Updates:** Periodically check the Intel support website for updated drivers and firmware to ensure optimal performance and compatibility.
- **Physical Inspection:** Ensure the adapter is securely seated in its PCIe slot and that all cables are properly connected. Keep the system's internal environment clean and free of dust to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your Intel X520-DA2 network adapter, consider the following troubleshooting steps:

- **No Link Light:** Verify that the SFP+ transceivers or DAC cables are correctly inserted and connected to an active 10GbE port on your network switch. Check the cable integrity.
- **Slow Performance:** Ensure the latest drivers are installed. Verify that your network switch ports are configured for 10GbE. Check for network congestion or faulty cables.
- **Adapter Not Detected:** Confirm the adapter is fully seated in the PCIe slot. Try a different PCIe slot if available. Ensure the system BIOS/UEFI recognizes the PCIe device.
- **Driver Issues:** Uninstall existing drivers and reinstall the latest version from the Intel website. Check your operating system's device manager for error codes.
- **System Instability:** If the system experiences crashes or instability after installation, ensure the power supply is adequate for all installed components.

For persistent issues, consult the Intel support website or contact Intel technical support.

SPECIFICATIONS

Brand	Intel
Model Number	E10G42BTDABLK (X520-DA2)
Hardware Interface	PCI Express 2.0 x8
Data Link Protocol	Ethernet
Data Transfer Rate	10000 Megabits Per Second (10GbE)
Ports	2 x SFP+
Compatible Devices	Desktop, Server
Item Weight	0.31 Pounds
UPC	675901207157

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and additional resources, please visit the official Intel

support website. You can typically find drivers, FAQs, and contact information for customer service there.

Intel Support Website: www.intel.com/support

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question