

PCIe Intel Ethernet Network Adapter X722-DA4



USER Manual
EN ver2.0

Description

The product simplifies technology transitions with the Intel® Ethernet Network adapter X722. It features iWARP RDMA for high data throughput, low -latency workloads and low CPU utilization. The X722 is ideal for software Defined Storage solutions, NVMe-over-Fabric solutions and virtual machines migration acceleration. the foundation for server connectivity, providing broad interoperability, critical performance optimizations, and increased agility for communications, Cloud, and Enterprise IT network solutions.

Specification

- iWARP RDMA
- PCI-Express host interface specification v3.0 with 8GT/s Bus width
- PCI-Express interface: x8
- Support 10GBASE-SR, 10GBASE-LR and SFP+ Direct Attach copper physical media
- 4x10G SFP+ supported
- Support for most network operating systems
- Time SYNC (IEEE1588, 802.1as) supported
- Intel Ethernet Flow director
- Multiple Queues:1536 TX and RX queues per device
- Supports Tx/Rx IP, SCTP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities
- Next-generation VMDQ up to 256 maximum VMDQ VMs supported
- PCI-SIG SR-IOV implementation 128 per device
- Virtual machine load balancing
- Advanced packet filtering
- VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags
- Drivers support for FreeBSD, Linux , VMWare ESXi, Win10/Win11/Win-server208/

Win-server202/Win-server2016/Win-server2019/Win-server2022

Features table

Model Name	PCIe x8 Intel Ethernet Adapter X722-DA4
Bus interface	PCIe3.0 x8 lane
Interrupt Levels	INTA, MSI, MSI-X
Transmission Media	SFP+
Link speeds of per port	10GbE/1GbE
Port number	4 ports
Operating Temperature	0 °C to 55 °C (32 °F to 131 °F)
Airflow	Quad Port, 325LFM@55°C for Optics 300LFM@55°C for DAC
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C
LED Indicators	LINK (solid) and ACTIVITY (blinking) LED Color(green=10Gbps)
Virtualization features	VMDQ, PCI-SIG, SR-IOV, Virtual machine load balancing advanced packet filtering, VLAN, VxLAN, GENEVE, NVGRE, MPLS, VxLAN -GPE, NSH
Manageability	PXE, UEFI, SNMP,
Power consumption max	13.6W
Remote Direct Memory Access (RDMA)	iWARP: based on TCP/IP, routable and scalable, ideal for software defined storage solutions
Physical Dimensions	167mm*69mm

Package content

- 1 x PCIe x8 Intel Ethernet Adapter X722-DA4
- 1 x User's Manual
- 1 x CD Driver
- 1 x Low profile bracket
- **Accessories**

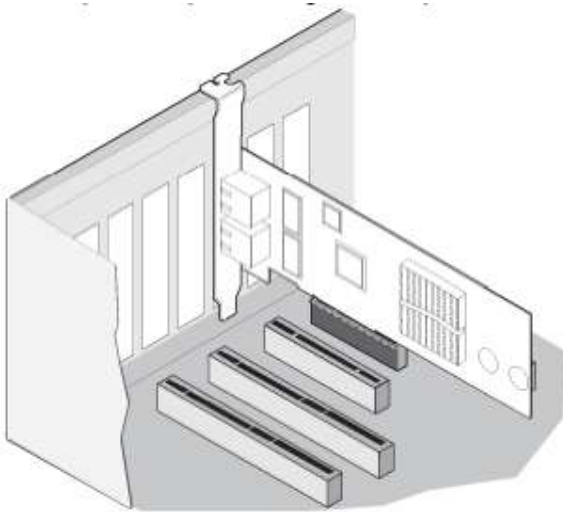


System Requirements

- Microsoft Windows: Win10/Win11/Win-server2008/
Win-server2012/Win-server2016/ Win-server2019/ Win-server2022
- Linux:RHEL7.9/8.4/8.5,SLES12SP5,SLES15SP3,Ubuntu18.04LTS/ 20.04LTS,FreeBSD
12.2/13
- An available PCI Express x8/x16 slot

Hardware installation

1. Turn off the computer and unplug the power cord
2. Remove the computer cover and the adapter slot cover from the slot that matches your adapter
3. Insert the adapter edge connector into the slot and secure the bracket to the chassis



CAUTION: Some PCI Express adapters may have a short connector, making them more fragile than PCI adapters. Excessive force could break the connector. Use caution when pressing the board in the slot.

4. Replace the computer cover ,then plug in the power cord
5. Power on the computer

Note: select the correct slot, some systems have physical X8 PCI Express slots those actually only support lower speeds. Please check your system manual to identify the slot

Install Drivers and software

Windows[®] Operating Systems

You must have administrative rights to the operating system to install the drivers.

1. insert the CD driver bound with Intel network driver into your CD-ROM drive(also you can download the latest drivers from [support website](#)):
2. if the Found New Hardware Wizard screen is displayed, click **Cancel**
3. start the autorun located in the software package, the autorun may automatically start after you have extracted files.

4. Click **install Drivers and Software**
5. Follow the instructions in the install wizard to finish it

Installing Linux Drivers from Source Code

1. Download and expand the base driver tar file.
2. Compile the driver module
3. Install the module using the modprobe command
4. Assign an IP address using the ifconfig command

Support

More information and settings, please refer to the Intel Adapter User Guides or you can contact us.