

# Intel X722DA4FH Datasheet



Intel X722-DA4 10GbE Quad Port SFP+ Ethernet Network Adapter, DA4, FH

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The Intel Ethernet Network Adapter X722 features WARP 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 Machine migration acceleration.

RDMA is a host-offload, host-bypass technology that enables a low-latency, high-throughput direct memory-to-memory data communication between applications over a network.

iWARP extensions to TCP/IP, standardized by the Internet Engineering Task Force (IETF), eliminate three major sources of networking overhead: TCP/IP stack process, memory copies, and application context switches. Based on TCP/IP, WARP is highly scalable and ideal for Hyper-converged storage solutions.

The X722 is one of the Intel Ethernet 700 Series Network Adapters. These adapters are the foundation for server connectivity, providing broad interoperability, critical performance optimizations, and increased agility for Telecommunications, Cloud, and Enterprise IT network solutions.

- Interoperability - Multiple media types for broad compatibility backed by extensive testing and validation.
- Optimization - Intelligent offloads and accelerators to unlock network performance in servers with Intel Xeon processors.

- Agility - Both Kernel and Data Plane Development Kit (DPDK) drivers for scalable packet processing.

Intel Ethernet 700 Series delivers networking performance across a wide range of network port speeds through intelligent offloads, sophisticated packet processing, and quality open source drivers.

## Features

- iWARP RDMA
- PCI Express (PCIe) v3.0, x8
- Network Virtualization offloads: VxLAN, GENEVE, and NVGRE
- Intel Ethernet Flow Director for hardware based application traffic steering
- Data Plane Development Kit (DPDK) optimized for efficient packet processing
- Excellent small packet performance for network appliances and Network Functions Virtualization (NFV)
- Intelligent offloads to enable high performance on servers with Intel Xeon Processors
- I/O virtualization innovations for maximum performance in a virtualized server

## Specifications

- Data Rate Supported Per Port
  - Optical: 10GbE
  - Direct Attach: 10GbE
- Bus Type: PCIe 3.0 (8 GT/s)
- Bus Width: PCIe x8
- Interrupt Levels: INTA, MSI, MSI-X
- Hardware Certifications: FCC A, UL, CE, VCCI, BSMI, CTICK, KCC
- Controller: Intel C628 Chipset
- Operating Temperature: 0 °C to 55 °C (32 °F to 131 °F)
- Airflow
  - Dual Port
    - 275LFM @ 55 °C for Optics
    - 250LFM 55 °C for DAC
  - 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)

#### Physical Dimensions

- X722-DA2 Low profile: 167 mm x 69 mm
- X722-DA4 Full height: 167 mm x 111 mm
- X722-DA4 Low profile: 167 mm x 69 mm

#### Product Order Code

- Dual Port, X722DA2, Low profile
- Quad Port, X722DA4FH, Full height
- Quad Port, X722DA4G1P5, Low profile

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