

NIC/PCIe up to 25Gb SFP28 x 4 Bulk (E810XXVDA4BLK)

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Intel Ethernet 800 series improves application efficiency and network performance with innovative and versatile capabilities that optimize high-performance server workloads such as NFV, storage, HPC-AI, and hybrid cloud. With its high 10/25GbE port density, the E810-XXVDA4 adapter is designed to optimize high-performance system workloads for Cloud and Communications. Performance optimizations and port density for Cloud and Storage deployments. Four 25GbE SFP28 ports deliver multiple high-speed connections. Application Device Queues (ADQ) provides dedicated traffic queues to reduce latency and increase application throughput. Dynamic Device Personalization enables protocol-specific traffic acceleration to improve packet processing efficiency and reduce CPU overhead. iWARP and RoCEv2 support provides high-speed, low-latency, high-throughput connectivity for Cloud storage targets. Accelerated packet processing and PCIe slot savings for Communications workloads. Four 25GbE SFP28 ports deliver greater bandwidth in slot-constrained RAN systems. Enhanced Data Plane Development Kit (DPDK) support increases packet processing speeds. Dynamic Device Personalization enables protocol-specific traffic acceleration and reduces CPU overhead for emerging high-bandwidth workloads. IEEE 1588 PTP v2 Precision Time Protocol support enables precise clock synchronization across 5G. Flexible configurations. Intel Ethernet Optics, and specification-compliant Active Optical Cables and Direct Attach Cables, can support multiple configurations.

Key Selling Points

- Four SFP28 connectors for flexible connectivity options
- Supports 10 Gigabit and 25 Gigabit Ethernet for high-speed networking
- Includes Data Direct I/O Technology (DDIO) for efficient data processing
- Flexible Port Partitioning (FPP) for improved network resource utilization
- Comprehensive virtualization support with SR-IOV and VMDq

Product Features

- Enhanced connectivity
The Intel Ethernet Network Adapter E810-XXVDA4 offers connectivity with four SFP28 ports, supporting both 10 Gigabit and 25 Gigabit Ethernet for high-speed data transfer and efficient network performance.
- Advanced network features
Equipped with technologies like Data Direct I/O Technology (DDIO), Flexible Port Partitioning (FPP), and On-chip QoS and Traffic Management, this network adapter ensures optimal data flow and superior traffic management for demanding network environments.
- Robust virtualization support
With features such as Single Root I/O Virtualization (SR-IOV), Virtual Machine Device Queues (VMDq), and support for RDMA over Converged Ethernet (RoCE) v2, the adapter enhances server efficiency and network virtualization, making it ideal for modern data centers.

Main specifications

Product Description	Intel Ethernet Network Adapter E810-XXVDA4 - network adapter - PCIe 4.0 x16 - 10/25 Gigabit SFP28 x 4
Device Type	Network adapter
Form Factor	Plug-in card
Interface (Bus) Type	PCI Express 4.0 x16
PCI Specification Revision	PCIe 3.0, PCIe 4.0
Ports	10/25 Gigabit SFP28 x 4
Data Link Protocol	10GbE, 25GbE
Network / Transport Protocol	iWARP, iSCSI, NFS

Extended specification

General

Device Type	Network adapter
Form Factor	Plug-in card
Interface (Bus) Type	PCI Express 4.0 x16
PCI Specification Revision	PCIe 3.0, PCIe 4.0

Expansion / Connectivity

Interfaces	4 x 10Gb Ethernet/25Gb Ethernet - SFP28
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Networking

Ports	10/25 Gigabit SFP28 x 4
Connectivity Technology	Wired
Data Link Protocol	10 Gigabit Ethernet, 25 Gigabit Ethernet
Network / Transport Protocol	iWARP, iSCSI, NFS
Features	On-chip QoS and Traffic Management, FPP, VMDq, RDMA support, RoCE v2, intelligent offloads, SR-IOV, DDIO Technology

Miscellaneous

Package Type	Retail
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