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Product Overview

Intel® Ethernet Network Adapters

V1.0



Intel® Ethernet Network Adapters | Move Data Faster

Intel's evolving Ethernet product portfolio consistently delivers a reliable experience and proven interoperability. Whether migrating from 1 to 10GBASE-T, or from 1 to 100Gbps, Intel Ethernet Products and technologies help move data faster.

Compatibility and interoperability

- Extensive conformance testing to IEEE and Ethernet Technology Consortium standards
- Broad network interoperability testing of different media types and Ethernet switches for best-in-class compatibility
- Comprehensive operating system and hypervisor support

Performance assurance

- Optimized for Intel® architecture
- Data Plane Development Kit (DPDK) enabled for faster network functions virtualization (NFV), advanced packet forwarding, and highly-efficient packet processing

Worldwide product support

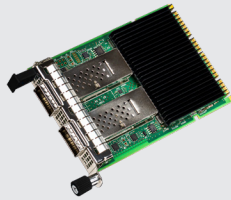
- Limited lifetime warranty for retail Ethernet Products
- Adherence to global regulatory, environmental, and market requirements

100 GbE

800 Series Network Adapters

E810-CQDA1/CQDA2

- 100/25/10 GbE
- Single / Dual Port
- QSFP28 Optics connection
- PCIe v4 interface (OCPv3)
- SFP28 ports – DAC, up to 5 m Optical, up to 100 m



25 GbE

800 Series Network Adapters

E810-XXVDA2/4

- 25/10 GbE
- Dual / Quad Port
- SFP28 Optics connection
- PCIe v4 interface
- SFP28 ports – DAC, up to 5 m Optical, up to 100 m



10 GbE

700 Series Network Adapters

X710-T2L/T4L

- 10 GbE
- Dual / Quad Port
- RJ45 connection
- PCIe v3 interface
- CAT6, up to 50 m CAT6A, up to 100 m



X710-DA2/4

- 10 GbE
- Dual Port
- SFP+ connection
- PCIe v3 interface
- SFP+ Direct Attached Twin Axial Cabling up to 10 m



500 Series Network Adapters

X550-T2

- 10 GbE
- Dual Port
- RJ45 connection
- PCIe v3 interface
- CAT6, up to 50 m CAT6A, up to 100 m



1 GbE

1Gb Intel Ethernet Network Adapters

I210-T1

- 1 GbE
- Single Port
- RJ45 connection
- PCIe v3 interface
- CAT5 or better, up to 100 m



I350-T2V2/T4V2

- 1 GbE
- Dual / Quad Port
- RJ45 connection
- PCIe v3 interface
- CAT5 or better, up to 100 m





Intel® Ethernet 800 Series 10/25GbE Adapters | More for Less

Improved Performance at Lower Cost

- Support for 10GbE and 25GbE via [SFP+ & SFP28 Transceivers](#)
- Lower cost than 700 Series 10GbE adapter

Enhanced Features

- RDMA (RoCEv2 & iWARP)
- [DDP enables a Fully Programmable Pipeline](#)
- Application Device Queues (ADQ)

Increased Security

- HW Root of Trust & Authentication on NVM Read and Power On

Better Manageability

- Support for PLDM Header increases flexibility for FW management

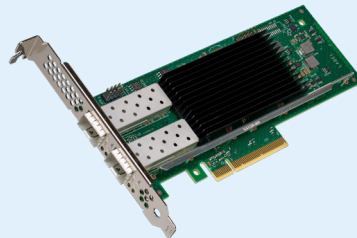
Future Proof with 800 Series SW Reuse

- SW/FW reuse with future E830 adapters due Q4/24

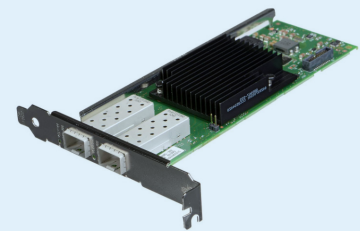
Discover the advantages of the E810XXVDA2 (800 Series)

[E810-XXVDA2 Product Brief](#)

[800 Series Product Guide](#)



Intel® Ethernet Network Adapter E810-XXVDA2



Intel® Ethernet Converged Network Adapter X710-DA2

Essentials

Launch Date	Q3/20	Q4/14
Vertical Segment	Server	Server
Cable Medium	Copper Fiber	Copper Fiber
Cabling Type	SFP28 ports - DAC Optics and AOC's	SFP+ ports - DAC Optics and AOC's
Bracket Height	Low Profile and Full Height	Low Profile and Full Height

Networking Specifications

Port Configuration	Dual	Dual
Data Rate Per Port	25/10/1GbE	10/1GbE
Intel® Virtualization Technology for Connectivity	Yes	Yes
Speed & Slot Width	16 GT/s x8 lanes	8.0 GT/s x8 lanes
System Interface Type	PCIe 4.0 (16 GT/s)	PCIe 3.0 (8.0 GT/s)

Intel® Virtualization Technology for Connectivity

On-chip QoS and Traffic Management	Yes	Yes
Flexible Port Partitioning	Yes	Yes
Virtual Machine Device Queues (VMDq)	Yes	Yes
PCI-SIG* SR-IOV Capable	Yes	Yes

Advanced Technologies

iWARP/RDMA	Yes	No
RoCEv2/RDMA	Yes	No
Intel® Data Direct I/O Technology	Yes	Yes
Intelligent Offloads	Yes	Yes
Storage Over Ethernet	iSCSI NFS	iSCSI NFS



Rutronik Worldwide Contact

Rutronik Elektronische Bauelemente GmbH
Industriestraße 2 | 75228 Ispringen | Germany
Phone: +49 (0) 72 31 801-0 | www.rutronik.com