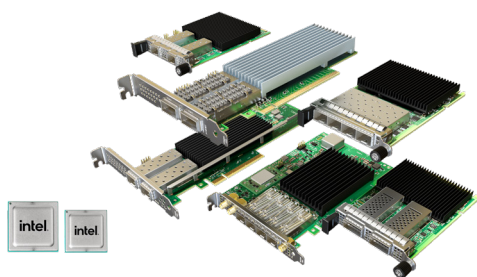


# 1 to 100 Gb Ethernet

## Introducing the Intel® Ethernet 800 Series



Intel® Ethernet 800 Series Network Adapters support speeds up to 100Gbps and include innovative and versatile capabilities to optimize workload performance.

### Performance for Cloud Applications

Delivers the bandwidth and increased application throughput required for demanding cloud workloads including edge services, web servers, database applications, caching servers, and storage targets.

### Optimizations for Communications Workloads

Provides packet classification and sorting optimizations for high-bandwidth network and communications workloads, including mobile core, 5G RAN, and network appliances.

### Supports Hyperconverged Solutions

The 800 Series broad portfolio of adapters, with different port counts and form factors, delivers performance with efficient use of server processors.

## 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


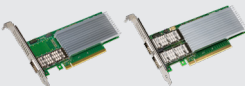




- Optimized for Intel® architecture
- Data Plane Development Kit (DPDK) enabled for faster network functions virtualization (NFV), advanced packet forwarding, and highly-efficient packet processing

### Worldwide product support

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

# Intel Ethernet 800 Series Network Adapters

Improve 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.

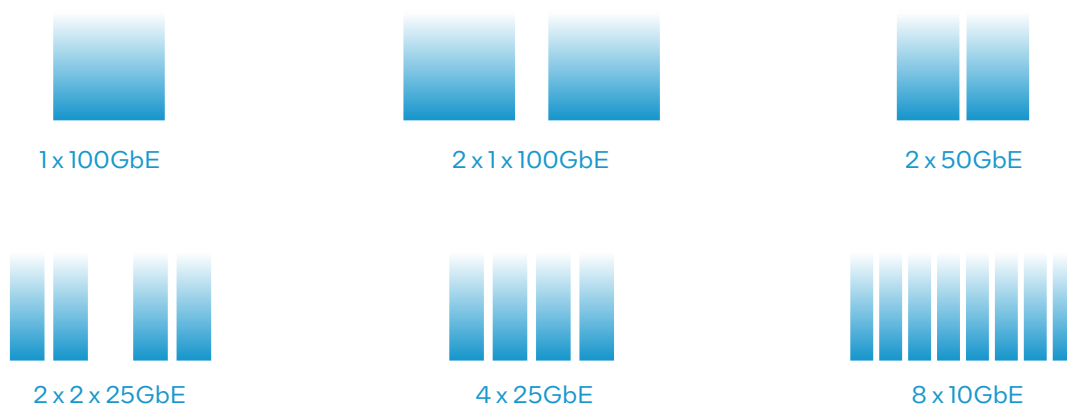
Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 E810-2CQDA2	QSFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	100/50/25/10GbE Note: 100Gbps per port for total bandwidth of 200Gbps	Dual	E8102CQDA2G1P5
 E810-CQDA1*, -CQDA2*	QSFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	100/50/25/10GbE	Single and Dual	E810CQDA1 E810CQDA1BLK E810CQDA2 E810CQDA2BLK
 E810-CQDA2T for high-precision timing synchronization	QSFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	100/50/25/10GbE	Dual	E810CQDA2TGG1 (with GNSS mezzanine) E810CQDA2TG1 (without GNSS mezzanine)
 E810-XXVDA4* (FH, LP)	SFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	25/10/1GbE	Quad	E810XXVDA4 (FH) E810XXVDA4BLK E810XXVDA4LG1P5 (LP)
 E810-XXVDA2*	SFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	25/10/1GbE	Dual	E810XXVDA2 E810XXVDA2BLK
 E810-XXVDA4T for high-precision timing synchronization	SFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	25/10/1GbE	Quad	E810XXVDA4T

\*OCP 3.0 form factor available

DAC - direct attach copper, SMF - single-mode fiber, MMF - multi-mode fiber




## Versatility and Flexibility for the Data Center

The Ethernet Port Configuration Tool is available on 100GbE Intel Ethernet 800 Series Network Adapters<sup>1</sup>, and offers a versatile solution for high-density, port-constrained network environments. One port becomes eight 10GbE ports, four 25GbE ports, and more—up to six configurations to choose from.



# Intel Ethernet 700 Series Network Adapters

Broad interoperability, critical performance optimizations, and increased agility make 700 Series Network Adapters a good choice for communications, cloud, and data center applications.



Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 XL710-QDA1, -QDA2	QSFP+ (DAC and Fiber Optic)	DAC: up to 7 m SMF: up to 10 km MMF: up to 100 m (OM3), up to 150 m (OM4)	40/10/1GbE	Single and Dual	XL710QDA1 XL710QDA2 XL710QDA2BLK
 XXV710-DA2*	SFP28 (DAC and Fiber Optic)	DAC: 25GbE up to 5 m with RS FEC, up to 3 m with no FEC DAC: 10GbE up to 15 m SMF: up to 10 km MMF: up to 70 m (OM3), up to 100 m (OM4)	25/10/1GbE	Dual	XXV710DA2 XXV710DA2BLK
 X710-DA2*, -DA4* (FH)	SFP+ (DAC and Fiber Optic)	DAC: 10 up to 15 m SMF: up to 10 km MMF: up to 300 m (OM3), up to 400 m (OM4)	10/1GbE	Dual and Quad	X710DA2 X710DA2BLK X710DA4FH X710DA4FHBLK X710DA4G2P5

\*OCP 3.0 form factor available

DAC - direct attach copper, SMF - single-mode fiber, MMF - multi-mode fiber

## Simplify Migration to 10GbE with these 700 and 500 Series Network Adapters


10GBASE-T is one of the least-disruptive paths for upgrading from 1000BASE-T. The familiar RJ45 interface simplifies migration, and backwards compatibility allows for a staged approach to higher-speed networks. With 10X performance improvement, migrating from 1 to 10GbE is a solid financial decision that is also budget friendly.

Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 X710-T2L*, -T4L*	RJ45	CAT6 up to 55 m CAT6A or better up to 100 m	10/1GbE/100Mb	Dual and Quad	X710T2L X710T2LBLK X710T4L X710T4LBLK
 X550-T2	RJ45	CAT6 up to 55 m (10GbE) CAT6A or better, up to 100 m (10GbE) CAT5 or better, up to 100 m (5/2.5/1GbE)	10/5/2.5/1GbE/100Mb	Dual	X550T2

\*OCP 3.0 form factor available



## 2.5Gb Intel Ethernet Network Adapter

This ultra-compact adapter is ideally suited for PCs and workstations used for enterprise, gaming, and home networks needing bandwidth beyond 1Gbps.

Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 I226-T1	RJ45	CAT5e, CAT6, CAT6A up to 100 m	2.5/1GbE/100Mb/10Mb	Single	I226T1 I226T1BLK

## 1Gb Intel Ethernet Network Adapters

Get performance-enhancing features and power management technologies with these 1GbE network adapters.

Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 I210-T1	RJ45	CAT5 or better up to 100 m	1GbE/100Mb/10Mb	Single	I210T1 I210T1BLK
 I350-T2/T4*	RJ45	CAT5 or better up to 100 m	1GbE/100Mb/10Mb	Dual Quad	I350T2V2 I350T2V2BLK I350T4V2 I350T4V2BLK

\*OCP 3.0 form factor available

## Move data faster with Intel® Ethernet products

Learn more at [intel.com/ethernet](https://intel.com/ethernet)

\*OCP form factors are also available for these adapters. Learn more at [intel.com/ocpnic](https://intel.com/ocpnic)  
1. EPCT is available on QSFP28 connection-based 100GbE 800 Series Network Adapters.

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