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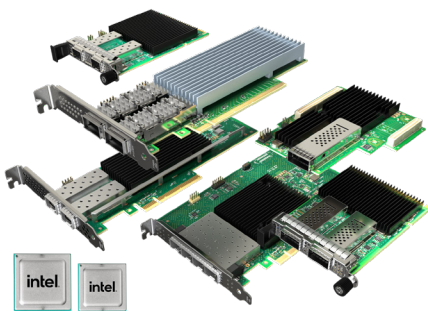
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## Product Guide Intel® Ethernet Network Adapters



# 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


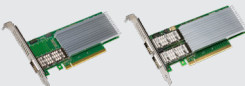



- Optimized for Intel® architecture
- Data Plane Development Kit (DPDK) enabled for faster network functions virtualization (NFV), advanced packet forwarding, and highly-efficient packet processing

### Worldwide product support

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

# Intel Ethernet 800 Series Network Adapters

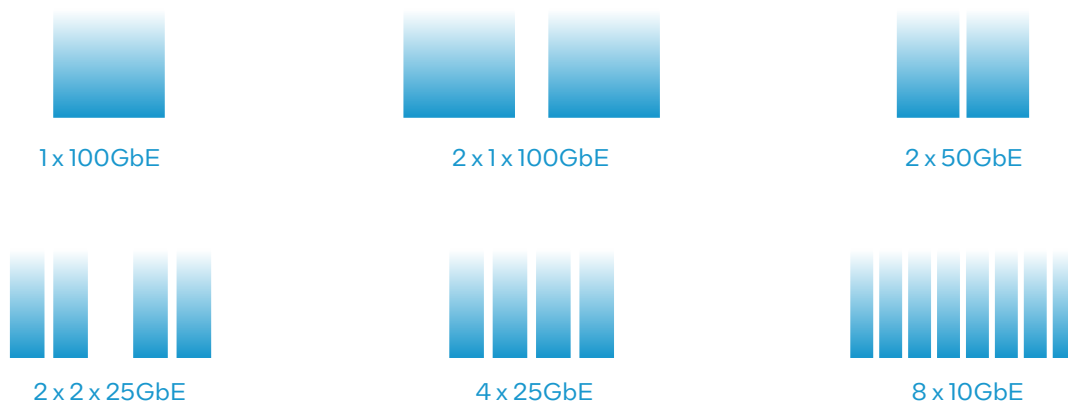
Improve application efficiency and network performance with innovative and versatile capabilities that optimize high-performance server workloads such as NFV, storage, HPC-AI, and hybrid cloud.

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	100/50/25/10/1GbE <sup>1</sup> 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	100/50/25/10/1GbE <sup>1</sup>	Single and Dual	E810CQDA1 E810CQDA2
 E810-XXVDA4* (FH)	SFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	25/10/1GbE	Quad	E810XXVDA4
 E810-XXVDA2*	SFP28	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	25/10/1GbE	Dual	E810XXVDA2
 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

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>2</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
 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
 XXV710-DA2T	SFP28 (DAC and Fiber Optic) Includes two coaxial SMA connectors for 1PPS input/output	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	Single and Dual	XXV710DA2TLG1P5
 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 X710DA4FH X10DA4G2P5
 I710-T4L	RJ45	CAT5 or better for 100BASE-TX CAT5e or better for 1000BASE-T	1GbE/100Mb	Quad	I710T4L

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 X710T4L
 X710-T4	RJ45	CAT6 up to 55 m CAT6A or better up to 100 m	10/1GbE/100Mb	Quad	X710T4
 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



## 2.5Gb Intel Ethernet Network Adapter

The ultra-compact Intel Ethernet I225-T1 is ideally suited for PC's and workstations used for enterprise, gaming, and home networks needing bandwidth beyond 1Gbps.

Product	Connection	Cabling Type and Range	Speed	Ports	Order Codes
 I225-T1	RJ45	CAT5e, CAT6, CAT6A up to 100 m	2.5/1GbE/100Mb/10Mb	Single	I225T1

## 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
 I350-T4*	RJ45	CAT5 or better up to 100 m	1GbE/100Mb/10Mb	Quad	I350T4V2

## 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. For 100GbE adapters, 1GbE will be supported in a future release.
2. EPCT is available on QSFP28 connection-based 100GbE 800 Series Network Adapters.

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