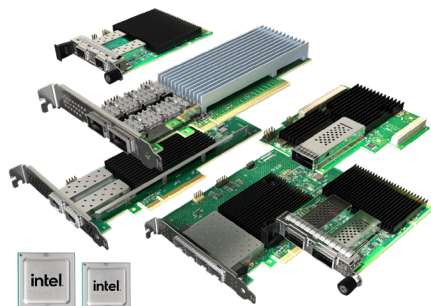


1 to 200 Gb Ethernet

Cisco Product Guide for Intel® Ethernet Network Adapters

Introducing the Intel® Ethernet 800 Series



Intel® Ethernet 800 Series Network Adapters support speeds up to 200Gbps 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.

Why Intel® Ethernet

Intel's extensive product selection, from 1GbE to 200GbE, supports a variety of form factors (PCIe and OCP network adapters, ASIC controllers and SOCs) and media types (BASE-T, Fiber, SFP+, QSFP+, SFP28, QSFP28, QSFP56, KR and XAUI), as well as open platform initiatives like OCP, DPDK, OFED, and ORAN.

The Intel Ethernet portfolio, with its supported open-platform initiatives, offers a wide range of data center solutions and continues to evolve with reliable off-the-shelf components to address any system size or budget.

Compatibility and interoperability

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

Performance assurance

- Validated on all x86 architectures and optimized for Intel® architecture
- Security protocols and management to ensure data integrity
- Scales with CPU cores and technologies

Worldwide product support

- Industry-leading limited lifetime warranty*
- World-class pre- and post-product support
- Adherence to global regulatory, environmental, and market requirements

*Cisco warranty supersedes Intel warranty for all Cisco product purchases.

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.

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.

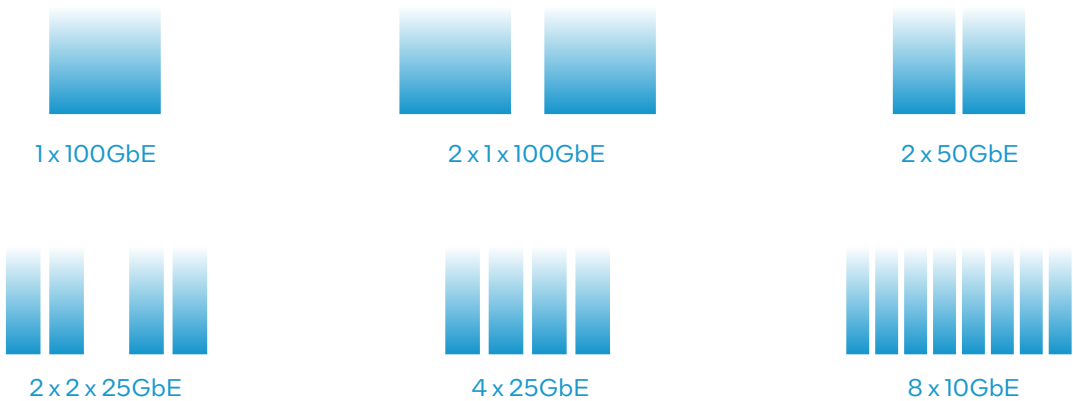
Optimizations for Communications Workloads

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

Product	Speed	Ports, Media Type	Form Factor	Platform	Cisco PID	Part Number ¹	Intel MM#
 E810-CQDA2	100GbE	2x100Gb QSFP28	PCIe 4.0 x16	M6, M7, M8	UCSC-P-I8D100GF	30-100246-01	999WG0
 E810-XXVDA4 (FH)	25GbE	4x25Gb SFP28	PCIe 4.0 x16	M6, M7, M8	UCSC-P-I8Q25GF	30-100250-01	999WG5
 E810-XXVDA2	25GbE	2x25Gb SFP28	PCIe 4.0 x8	M6, M7, M8	UCSC-P-I8D25GF	30-100245-01	999X1P

Versatility and Flexibility for the Data Center

The Ethernet Port Configuration Tool is available on 100GbE Intel Ethernet 800 Series Network Adapters¹, 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

The 700 Series provides broad interoperability, critical performance optimizations and increased agility for Communications, Cloud and the Data Center.

- Full height and low-profile
- iSCSI, NFS, SMB
- Intelligent Offloads
- Optimized for DPDK and Intel Ethernet Flow Director
- On-chip QoS and traffic management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG SR-IOV capable

Product	Speed	Ports, Media Type	Form Factor	Platform	Cisco PID	Part Number ¹	Intel MM#
 XL710-QDA2	40GbE	2x40Gb QSFP+	PCIe 3.0 x8	M5, M6	UCSC-PCIE-ID40GF	30-100132-01	949793
 XXV710-DA2	25GbE	2x25Gb SFP28	PCIe 3.0 x8	M5	UCSC-PCIE-ID25GF	30-100202-01	956528
 XXV710 for OCP 2.0	25GbE	2x25Gb SFP28	OCP 2.0 x8	M5	UCSC-O-ID25GF	30-100239-01	999PO6
 X710-DA2	10GbE	2x10Gb SFP+	PCIe 3.0 x8	M5, M6, M7	UCSC-PCIE-ID10GF	30-100173-01	949790
 X710-DA4	10GbE	4x10Gb SFP+	PCIe 3.0 x8	M5, M6, M7	UCSC-PCIE-IQ10GF	30-100131-01	949792
 X710-T2L	10GbE	2x10Gb BASE-T	PCIe 3.0 x8	M6, M7, M8	UCSC-P-ID10GC	30-100248-01	999WG3
 X710-T4L	10GbE	4x10Gb-BASE-T	PCIe 3.0 x8	M6, M7, M8	UCSC-P-IQ10GC	30-100249-01	999WG4
 X710-T2L for OCP 3.0	10GbE	2x10Gb BASE-T	OCP 3.0 x8	M6, M7, M8	UCSC-O-ID10GC	30-100251-01	99AG68
 X710-T4	10GbE	4x10Gb BASE-T	PCIe 3.0 x8	M5	UCSC-PCIE-IQ10GC	30-100203-01	949796
 I710-T4L	1GbE/100Mb	4x1000 BASE-T	PCIe 3.0 x8	M7, M8	UCSC-P-IQ1GC	30-100306-01	99C108

Intel Ethernet 500 Series Network Adapters

Product	Speed	Ports, Media Type	Form Factor	Platform	Cisco PID	Part Number ¹	Intel MM#
 X550-T2	10GbE	2x10Gb BASE-T	PCIe 3.0 x8	M5	UCSC-PCIE-ID10GC	30-100175-01	949789
 X520-DA2	10GbE	2x10Gb SFP+	PCIe 2.0 x4	M5	N2XX-AIPCI01	74-6814-01	908373

1 Gigabit Intel Ethernet Network Adapter

Product	Speed	Ports, Media Type	Form Factor	Platform	Cisco PID	Part Number ¹	Intel MM#
 I350-T4	1GbE	4x1000 BASE-T	PCIe 2.1 x4	M5, M6	UCSC-PCIE-IRJ45	74-10521-01	921889

Intel® QuickAssist Adapter

Product	Speed	Ports, Media Type	Form Factor	Platform	Cisco PID	Part Number ¹	Intel MM#
 8970	Hardware Acceleration up to 100Gbps		PCIe 3.0 x16	M5	UCSC-P-IQAT8970	30-100247-01	999L52

Move data faster with Intel® Ethernet products

Learn more about Intel Ethernet Products and Technologies at intel.com/ethernet

¹. For the latest information on supported servers, please check the Cisco UCS Hardware Compatibility List (HCL) <https://ucshcltool.cloudapps.cisco.com/public/>

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