

1 to 200 Gb Ethernet



Intel® Ethernet 800 Series

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.

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® Ethernet products are designed to integrate seamlessly into existing environments. Extensive validation and global support help customers deploy with confidence and operate at scale.

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

Predictable performance

- Validated across a broad range of server platforms
- Security protocols and management to ensure data integrity
- Scales with CPU cores and technologies

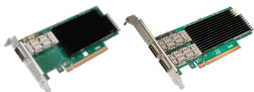
Outstanding product support

- Intel limited lifetime hardware warranty for Retail Intel® Ethernet Network Adapters, plus 5 years post-product EOL¹
- Global pre- and post-product support
- Adherence to global regulatory, environmental, and market requirements

Intel® Ethernet E835 Network Adapters

This network adapter family features a low-power design that reduces energy consumption across the system, lowering costs and environmental impact, while addressing increasingly important power-density challenges.

Concurrent support for iWARP and RoCEv2 RDMA, modern security features, key timing protocols, and fast data exchange make E835 network adapters an optimal choice for critical applications. Shared drivers in the 800 Series make deployment easier and ensure software consistency across generations of products.

Product	Form Factor	Speed	Ports	Cabling Type and Range	Connection	Order Codes
 E835-CCQDA1, -CQDA2	Standard adapter	200/100/50/25/10GbE	1 or 2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	QSFP56 (200GbE 1 port) QSFP28 (100GbE 2 ports)	E835CCQDA1 E835CCQDA1M E835CQDA2 E835CQDA2M
 E835-XXVDA4	Standard adapter	25/10/1GbE	4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E835XXVDA4 E835XXVDA4M
 E835-XXVDA2	Standard adapter	25/10/1GbE	2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E835XXVDA2 E835XXVDA2M
 E835-CCQDA1, -CQDA2 for OCP 3.0	OCP 3.0 Small form factor	200/100/50/25/10GbE	1 or 2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	QSFP56 (200GbE 1 port) QSFP28 (100GbE 2 ports)	E835CCQDA1OC3 E835CCQDA1OC3M E835CQDA2OC3 E835CQDA2OC3M
 E835-XXVDA4 for OCP 3.0	OCP 3.0 Small form factor	25/10/1GbE	4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E835XXVDA4OC3 E835XXVDA4OC3M
 E835-XXVDA2 for OCP 3.0	OCP 3.0 Small form factor	25/10/1GbE	2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E835XXVDA2OC3 E835XXVDA2OC3M

Ethernet Port Configuration Tool (EPCT)

200GbE E835 network adapters have multiple port configurations to choose from. After the initial adapter validation, 200GbE E835 network adapters with EPCT offer a quick two-step process to change configurations: select the new configuration and reboot. No additional validations are required.

Dual-port Configuration Options

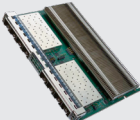
Port 1	Port 2
1x200	-
1x100	1x100
4x50	-
4x25	4x25
2x50	2x50

Single-port Configuration Options

Port 1
1x200
2x100
4x50

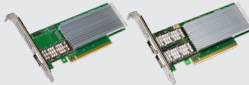
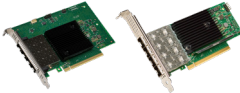
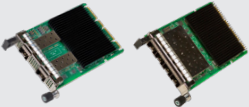
Intel® Ethernet 800 Series Network Adapters for Timing Applications

Meet the challenging requirements of 5G RAN and edge deployments head-on with these standards-based, 800 Series Intel® Ethernet Network Adapters.

Product	Form Factor	Speed	Ports	Cabling Type and Range	Connection	Order Codes
 E830-XXVDA4F	Standard adapter for high-precision timing synchronization	25/10/1GbE	4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	Contact your Intel Sales Representative
 E830-XXVDA8F for OCP 3.0	DSFF* with timing follower functionality	25/10GbE	8	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E830XXVDA8FOCM
 E810-XXVDA4T	Standard adapter for high-precision timing synchronization	25/10/1GbE	4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E810XXVDA4TGG1 E810XXVDA4TG1

Intel® Ethernet E810 Network Adapters

Efficient workload-optimized performance for Ethernet speeds up to 100Gbps. Innovative and versatile capabilities optimize high-performance server workloads.

Product	Form Factor	Speed	Ports	Cabling Type and Range	Connection	Order Codes
 E810-2CQDA2	Standard adapter	100*/50/25/10GbE *100Gbps per port for total bandwidth of 200Gbps	2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	QSFP28	E8102CQDA2
 E810-CQDA1, -CQDA2	Standard adapter	100/50/25/10GbE	1 or 2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	QSFP28	E810CQDA1 E810CQDA2 E810CQDA2BLK
 E810-XXVDA4	Standard adapter	25/10/1GbE	4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E810XXVDA4 E810XXVDA4BLK E810XXVDA4LG1P5 (low profile)
 E810-XXVDA2	Standard adapter	25/10/1GbE	2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E810XXVDA2 E810XXVDA2BLK
 E810-CQDA1, -CQDA2 for OCP 3.0	OCP 3.0 Small form factor	100/50/25/10GbE	1 or 2	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	QSFP28	E810CQDA1OCPV3 E810CQDA2OCPV3
 E810-XXVDA2, -XXVDA4 for OCP 3.0	OCP 3.0 Small form factor	25/10/1GbE	2 or 4	DAC: up to 5 m SMF: up to 10 km MMF: up to 100 m	SFP28	E810XXVDA2OCPV3 E810XXVDA2OCPV3BM** E810XXVDA4OCPV3 **Uses Intel Ethernet Controller E810-CAM2

Intel® Ethernet 800 Series Controllers

E835 Controllers offer one of the broadest port densities and speed combinations in the market today, ideal for mixed-speed legacy environments, and for transitioning between speed generations.

Modernizing the data center is made easier and less disruptive with 800 Series Controllers through shared drivers guaranteeing software consistency across generations of products.

Product	Connection Speed	Ports	Host Interface	Package Size/ Physical Package	Network Interfaces Supported	Order Codes
 E835-CCAM1, -CCEM1	200/100/50/25/10GbE	1, 2, 4, or 8	PCIe 5.0 x8 or PCIe 4.0 x16	23mm x 23mm	200GbE: 200GBASE-KR4, CR4 100GbE: 100GBASE-KR4, CR4, CR2, KR2; CAUI-4; 100GAUI-2, -4 50GbE: 50GBASE-KR2, CR2, CR, KR; 50GAUI-2, -1; LAUI-2 25GbE: 25GBASE-KR, CR, CR1/KR1; AUI 10GbE: KR, SFI 1GbE: KX 100M: SGMII	Commercial temp: EZE835CCAM1 Extended temp: EZE835CCEM1
 E835-CAM1	100GbE	1	PCIe 5.0 x8 or PCIe 4.0 x16	23mm x 23mm	100GbE: 100GBASE-KR4, CR4, CR2, KR2; CAUI-4; 100GAUI-2, -4 50GbE: 50GBASE-KR2, CR2, CR, KR; 50GAUI-2, -1; LAUI-2 25GbE: 25GBASE-KR, CR, CR1/KR1; AUI 10GbE: KR, SFI 1GbE: KX 100M: SGMII	EZE835CAM1
 E835-XXVAM2	25/10GbE	1 or 2	PCIe 5.0 x8 or PCIe 4.0 x16	23mm x 23mm	25GbE: 25GBASE-KR, CR, CR1/KR1; AUI 10GbE: KR, SFI 1GbE: KX 100M: SGMII	EZE835XXVAM2
 E810-CAM1/CAM2	100/50/25/10GbE	1 or 2	PCIe 4.0	25 mm x 25 mm	100GbE: 100GBASE-KR4, CR4, CR2, KR2; CAUI-4; 100GAUI-2, -4 50GbE: 50GBASE-KR2, CR2, CR, KR; 50GAUI-2, -1; LAUI-2 25GbE: 25GBASE-KR, CR, CR1/KR1; AUI 10GbE: KR, SFI 1GbE: KX 100M: SGMII	EZE810CAM1 EZE810CAM2
 E810-XXVAM2	25/10/1GbE	2	PCIe 4.0	21 mm x 21 mm	25GbE: 25GBASE-KR, CR, CR1/KR1; AUI 10GbE: KR, SFI 1GbE: KX 100M: SGMII	EYE810XXVAM2

Behind every great server...Intel® Ethernet innovation.

Learn more at intel.com/ethernet

1. Intel® Ethernet Adapters that are currently active adhere to the Limited Lifetime Hardware Warranty for Retail Intel® Ethernet Adapters and will have no warranty expiration until discontinuance. Intel® Ethernet Adapters that are discontinued will adhere to a 5-year warranty period from the date of Intel's announcement of end of life or discontinuance.

See [Limited Lifetime Hardware Warranty](#) for more details.