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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Connection</th>
<th>Cabling Type and Range</th>
<th>Speed</th>
<th>Ports</th>
<th>Order Codes</th>
</tr>
</thead>
</table>
| 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 | 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  
E810XXVDA4L1P5(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 | 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, 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.

<table>
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<th>Speed</th>
<th>Ports</th>
<th>Order Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>X710-T2L*, -T4L*</td>
<td>RJ45</td>
<td>CAT6 up to 55 m CAT6A or better up to 100 m</td>
<td>10/1GbE/100Mb</td>
<td>Dual and Quad</td>
<td>X710T2L X710T2LBLK X710T4L X710T4LBLK</td>
</tr>
<tr>
<td>X710-T4</td>
<td>RJ45</td>
<td>CAT6 up to 55 m CAT6A or better up to 100 m</td>
<td>10/1GbE/100Mb</td>
<td>Quad</td>
<td>X710T4 X710T4BLK</td>
</tr>
<tr>
<td>X550-T2</td>
<td>RJ45</td>
<td>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)</td>
<td>10/5/2.5/1GbE/100Mb</td>
<td>Dual</td>
<td>X550T2</td>
</tr>
</tbody>
</table>

**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.
## 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.

<table>
<thead>
<tr>
<th>Product</th>
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<th>Order Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>I226-T1</td>
<td>RJ45</td>
<td>CAT5e, CAT6, CAT6A up to 100 m</td>
<td>2.5/1GbE/100Mb/10Mb</td>
<td>Single</td>
<td>I226T1I226T1BLK</td>
</tr>
<tr>
<td>I225-T1</td>
<td>RJ45</td>
<td>CAT5e, CAT6, CAT6A up to 100 m</td>
<td>2.5/1GbE/100Mb/10Mb</td>
<td>Single</td>
<td>I225T1I225T1BLK</td>
</tr>
</tbody>
</table>

## 1Gb Intel Ethernet Network Adapters

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

<table>
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<th>Ports</th>
<th>Order Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>I210-T1</td>
<td>RJ45</td>
<td>CAT5 or better up to 100 m</td>
<td>1GbE/100Mb/10Mb</td>
<td>Single</td>
<td>I210T1I210T1BLK</td>
</tr>
<tr>
<td>I350-T2/T4*</td>
<td>RJ45</td>
<td>CAT5 or better up to 100 m</td>
<td>1GbE/100Mb/10Mb</td>
<td>Dual Quad</td>
<td>I350T2V2I350T2V2BLK</td>
</tr>
</tbody>
</table>

*OCP 3.0 form factor available

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**Move data faster with Intel® Ethernet products**

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