

Intel® Ethernet Value

Reliable Performance

- It just works
- Broad OS support
- Designed for multi-core processors
- Low latency Ethernet

Best Choice for Virtualization

- Outstanding virtualization performance with Intel® Virtualization Technology for Connectivity
- Leadership in virtual system scalability
- Broad VM support (VMWare ESX*, Microsoft Hyper-V* and Xen*)

Unified Networking

- Fibre Channel over Ethernet
- iSCSI with trusted, native OS support
- Support for data center bridging with lossless Ethernet

Intel® Ethernet Server and Desktop Adapters

Connectivity you can count on.

Compatibility tested for trouble-free interoperability with network infrastructure elements.

Broad selection from 10/100 Mbps to 10 Gbps, for copper or fiber, from PCI to PCI Express*, BASE-T to SFP+, with network reach from 1 meter to 10 kilometers and in single- to quad-port configurations. Other form factors including custom mezzanine cards and express modules are available upon request.

Performance and reliability backed by more than 25 years of network connectivity experience and Intel worldwide customer support.

Easy installation and management with Intel® PROSet for Windows Device Manager* and other tools.

Worldwide availability and environmentally friendly for compliance with global market requirements.

Quick and Easy Adapter Management

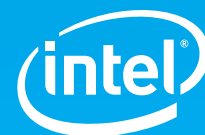
Powerful point-and-click configuration tool for advanced adapter features, connection teaming, even VLANs, with Intel® PROSet for Windows Device Manager*.

- **Convenient access** to Intel® PROSet Utility, now integrated in Windows Device Manager.
- **Simple, integrated tools** make it easy to manage and troubleshoot Ethernet connections in both servers and client computers.
- **Supports multi-vendor teaming** for adapter compatibility with most on-board connections.



Ethernet Everywhere. It Just Works.

www.intel.com/go/ethernet



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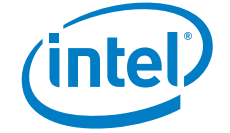
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Intel® Ethernet Server and Desktop PCI Express* Adapters

Product Selection Guide

Reliable Performance ■ Best Choice for Virtualization ■ Unified Data and Storage Networking



Ethernet
Everywhere.
It Just Works.

For additional
product information,
please visit:
intel.com/go/ethernet

Speed/Port	10Gbps - Copper for Servers and Workstations						10Gbps - Fiber for Servers and Workstations			
Brand Name	Intel® Ethernet Server Adapter X520-DA2	Intel® Ethernet Server Adapter X520-T2	Intel® 10 Gigabit AT2 Server Adapter	Intel® 10 Gigabit CX4 Dual Port Server Adapter	NetEffect™ Ethernet Server Cluster Adapter CX4	NetEffect™ Ethernet Server Cluster Adapter DA	Intel® Ethernet Server Adapter X520-SR1	Intel® Ethernet Server Adapter X520-SR2	Intel® Ethernet Server Adapter X520-LR1	NetEffect™ Ethernet Server Cluster Adapter SFP+ SR
Product Code	E10G42BTDA	E10G42BT	E10G41AT2	EXPX9502CX4	E10G81GT2CX4	E10G81G2P	E10G41BFSR	E10G42BFSR	E10G41BFLR	E10G81GF2SR
Ethernet Controller(s)	Intel® 82599ES	Intel® 82599ES	Intel® 82598EB	Intel® 82598EB	NetEffect™ NE020	NetEffect™ NE020	Intel® 82599ES	Intel® 82599ES	Intel® 82599ES	NetEffect™ NE020
Connector & Cable Medium	SFP+ Direct Attach Copper	RJ45-Copper	RJ45-Copper	CX4 Copper	CX4 Copper	SFP+ Direct Attach Copper	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic
Cabling Type	SFP+ Direct Attached Twin Axial Cabling up to 10 m	Category-6 up to 55 m Category-6A up to 100 m	Category-6 up to 55 m Category-6A up to 100 m	8 pair, 100 ohm Twin Axial Cabling up to 15 m	8 pair, 100 ohm Twin Axial Cabling up to 15 m	SFP+ Direct Attached Twin Axial Cabling up to 10 m	MMF 62.5/50 µm up to 300 m	MMF 62.5/50 µm up to 300 m	SMF up to 10 km	MMF 62.5/50 µm up to 300 m
Slot Type, Maximum Bus Speed & Slot Width	PCI Express* 2.0 5.0 GT/s x 8 Lane	PCI Express* 2.0 5.0 GT/s x 8 Lane	PCI Express* 2.0 2.5 GT/s Lane x 8 Lane	PCI Express* 2.0 2.5 GT/s Lane x 8 Lane	PCI Express* 1.1 2.5 GHz/Lane x 8 Lane	PCI Express* 1.1 2.5 GHz/Lane x 8 Lane	PCI Express* 2.0 5.0 GT/s x 8 Lane	PCI Express* 2.0 5.0 GT/s x 8 Lane	PCI Express* 2.0 5.0 GT/s x 8 Lane	PCI Express* 1.1 2.5 GHz/Lane x 8 Lane
Ports	Dual Port	Dual Port	Single Port	Dual Port	Single Port	Single Port	Single Port	Dual Port	Single Port	Single Port
Supported Slot Height(s)	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height
Intelligent Offloads	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intel® VT for Connectivity	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Virtual Machine Device Queues (VMDq), Hypervisor-based Port Partitioning	On-chip QoS and Traffic Management, Virtual Machine Device Queues (VMDq), Hypervisor-based Port Partitioning	NA	NA	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	NA
Storage over Ethernet	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, FCoE, NFS	iSCSI, NFS
iWARP/RDMA	NA	NA	NA	NA	Yes	Yes	NA	NA	NA	Yes

Speed/Port	1Gbps - Copper for Servers and Workstations						1Gbps - Fiber for Servers and Workstations				1Gbps - Copper for Desktops
Brand Name	Intel® Ethernet Server Adpater I350-T4	Intel® Ethernet Server Adpater I350-T2	Intel® Ethernet Server Adapter I340-T4	Intel® Gigabit ET Dual Port Server Adapter	Intel® Gigabit ET2 Quad Port Server Adapter	Intel® PRO/1000 PT Server Adapter	Intel® Ethernet Server Adapter I340-F4	Intel® Gigabit EF Dual Port Server Adapter	Intel® PRO/1000 PF Server Adapter	Intel® PRO/1000 PF Dual Port Server Adapter	Intel® Gigabit CT Desktop Adapter
Product Code	I350T4 I350T4BLK	I350T2 I350T2BLK	E1G44HT E1G44HTBLK	E1G42ET E1G42ETBLK	E1G44ET2 E1G44ET2BLK	EXPI9400PT EXPI9400PTBLK	E1G44HF E1G44HFBLK	E1G42EF E1G42EFBLK	EXPI9400PF EXPI9400PFBLK	EXPI9402PF EXPI9402PFBLK	EXPI9301CT EXPI9301CTBLK
Ethernet Controller(s)	Intel® I350	Intel® I350	Intel® 82580	Intel® 82576	Intel® 82576	Intel® 82572GI	Intel® I350	Intel® 82576	Intel® 82572GI	Intel® 82571GB	Intel® 82574L
Connector & Cable Medium	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	RJ-45 Copper
Cabling Type	Category-5 up to 100 m	Category-5 up to 100 m	Category-5 up to 100 m	Category-5 up to 100 m	Category-5 up to 100 m	Category-5 up to 100 m	MMF 62.5/50 µm up to 275 m	MMF 62.5/50 µm up to 275 m	MMF 62.5/50 µm up to 275 m	MMF 62.5/50 µm up to 275 m	Category-5 up to 100 m
Slot Type, Maximum Bus Speed & Slot Width	PCI Express* 2.0 5 GT/s Lane x 4 Lane	PCI Express* 2.0 5 GT/s Lane x 4 Lane	PCI Express* 2.0 5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 1 Lane	PCI Express* 2.0 5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 4 Lane	PCI Express* 2.0 2.5 GT/s Lane x 4 Lane	PCI Express* 1.1 2.5 GT/s Lane x 1 Lane
Ports	Quad Port	Dual Port	Quad Port	Dual Port	Quad Port	Single Port	Quad Port	Dual Port	Single Port	Dual Port	Single Port
Supported Slot Height(s)	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height	Low Profile and Full Height
Halogen Free	Yes	Yes	Yes	NA	NA	NA	NA	NA	NA	NA	NA
Intelligent Offloads	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
Intel® VT for Connectivity	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Virtual Machine Device Queues (VMDq), Hypervisor-based Port Partitioning	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	NA	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	On-chip QoS and Traffic Management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG* SR-IOV capable	NA	NA	NA
Storage over Ethernet	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS	iSCSI, NFS
Intel® Ethernet Power Management ¹	Yes	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA

¹Intel® Ethernet Power Management includes Energy Efficient Ethernet (EEE) and DMA Coalescing