

10 Gigabit Ethernet Server Adapters

Intel's fastest connection for high-performance servers.

Ideal for transferring large data blocks in:

- High-performance computing and storage clusters and database and backup servers
- CAD/CAM nodes, modeling and graphics
- Data modeling and simulations
- Financial forecasting
- Video editing and digital imaging
- Network backbones

For **CX4 copper** (up to 25 m), specify the Intel® PRO/10GbE CX4 Server Adapter.

For **medium reach** in multi-mode fiber (up to 300 m), specify the Intel® PRO/10GbE SR Fiber Server Adapter.

For **long reach** in single-mode fiber (up to 10 km), specify the Intel® PRO/10GbE LR Fiber Server Adapter.

PCI Express* Adapters for Gigabit Ethernet

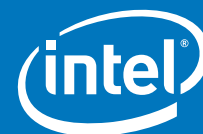
Enhance Gigabit Ethernet performance with a broad selection of PCI Express adapters for servers, workstations and desktops.

- **Reliable**, proven 6th generation Gigabit Ethernet technology from Intel.
- **Scalable** PCI Express interface provides dedicated I/O bandwidth for networking.
- **Quick** and comprehensive access and management with the new Intel® PROSet for Microsoft Device Manager* software.
- **Flexibility** with iSCSI Boot and choice of quad-, dual-, and single-port adapters in both fiber and copper.
- **Lead-free** technology for use in worldwide markets.

Quick and Easy Adapter Management

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

- **New, convenient** access to Intel® PROSet Utility, now integrated in Microsoft 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.



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Intel® PRO Server and Desktop Adapters

Product Selection Guide

Intel® PRO 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*, in single- to quad-port configurations.

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

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

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

Multi-Port Gigabit Server Adapters

Increase uptime, scalability and performance with four Gigabit Ethernet ports in one slot.

- **Conserve server slots** with a selection of dual- and quad-port Intel® PRO Server Adapters for flexible network connectivity.
- **Increase reliability and performance** by teaming ports together for automatic failover and scalable server links, or utilize multiple network segments and VLANs.
- **Simplify multi-port link aggregation**, adaptive load balancing and fault tolerance with Intel® Advanced Network Services software for connection teaming.
- **Scale server performance** with Intel® I/O Acceleration Technology (Intel® I/OAT).
- **Easy connection management** with Intel® PROSet for Microsoft Device Manager software.
- **Supports multi-vendor teaming** for adapter compatibility with most on-board connections.



Connectivity you can count on

For additional product information, please visit: www.intel.com/network/connectivity

For network adapter training, visit www.intel.com/go/salestraining

For success story referrals, visit www.morph2cool.com

Platform	SERVER / WORKSTATION																		DESKTOP	
Speed/Port	10 Gbps - Fiber				10 Gbps - Copper	1000Mbps - Fiber						10/100/1000Mbps - Copper							10/100/1000Mbps - Copper	
Brand Name	Intel® 10GbE XF SR Server Adapter	Intel® 10GbE XF SR Server Adapter	Intel® PRO/10GbE SR Server Adapter	Intel® PRO/10GbE LR Server Adapter	Intel® PRO/10GbE CX4 Server Adapter	Intel® PRO/1000 PF Quad Port Server Adapter	Intel® PRO/1000 PF Dual Port Server Adapter	Intel® PRO/1000 PF Server Adapter	Intel® PRO/1000 MF Dual Port Server Adapter	Intel® PRO/1000 MF Server Adapter	Intel® PRO/1000 MF Server Adapter (LX)	Intel® PRO/1000 PT Quad Port Server Adapter	Intel® PRO/1000 PT Quad Port LP Server Adapter	Intel® PRO/1000 PT Dual Port Server Adapter	Intel® PRO/1000 PT Server Adapter	Intel® PRO/1000 GT Quad Port Server Adapter	Intel® PRO/1000 MT Dual Port Server Adapter	Intel® PRO/1000 MT Server Adapter	Intel® PRO/1000 PT Desktop Adapter	Intel® PRO/1000 GT Desktop Adapter
Product Code	EXPX9502AFXSR	EXPX9501AFXSR	PXLA8591SR	PXLA8591LR	PXLA8591CX4	EXPI9404PF EXPI9404PFBLK	EXPI9402PF EXPI9402PFBLK	EXPI9400PF EXPI9400PFBLK	PWLA8492MF PWLA8492MFBLK5	PWLA8490MF PWLA8490MFBLK5	PWLA8490LX PWLA8490LXBLK5	EXPI9404PT EXPI9404PTBLK	EXPI9404PTL EXPI9404PTLBLK	EXPI9402PT EXPI9402PTBLK	EXPI9400PT EXPI9400PTBLK	PWLA8494GT PWLA8494GTBLK	PWLA8492MT PWLA8492MTBLK5	PWLA8490MT PWLA8490MTBLK5	EXPI9300PT EXPI9300PTBLK EXPI9300PTL ³	PWLA8391GT PWLA8391GTBLK PWLA8391GTL ⁴
Intel® I/OAT	Yes	Yes	No	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	No	No	No	No	No
Ethernet Controller(s)	Intel® 82598EB	Intel® 82598EB	Intel® 82597EX	Intel® 82597EX	Intel® 82597EX	Intel® 82571GB	Intel® 82571GB	Intel® 82572GI	Intel® 82546GB	Intel® 82545GM	Intel® 82545GM	Intel® 82571GB	Intel® 82571GB	Intel® 82571GB	Intel® 82572GI	Two Intel® 82546GB	Intel® 82546GB	Intel® 82545GM	Intel® 82572GI	Intel® 82541PI
Connector & Cable Medium	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	SC Fiber Optic	CX4 Copper	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	LC Fiber Optic	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper	RJ-45 Copper
Cabling Type	MMF 62.5/50 µm up to 300 m	MMF 62.5/50 µm up to 300 m	MMF 62.5/50 µm up to 300 m	SMF 9 µm up to 10 km	CX4 up to 25 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	MMF 62.5/50 µm up to 275 m	SMF 9 µm up to 10 km MMF 62.5/50 µm up to 550m	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	Category-5 up to 100 m	Category-5 up to 100 m	Category-5 up to 100 m
Slot Type, Maximum Bus Speed & Slot Width	PCI-Express, 2.5GHz/Lane; x16, x8, x4	PCI-Express, 2.5GHz/Lane; x16, x8, x4	PCI-X, 133 MHz 64-bit	PCI-X, 133 MHz 64-bit	PCI-X, 133 MHz 64-bit	PCI Express, 2.5 GHz/Lane x4 lane	PCI Express, 2.5 GHz/Lane x4 lane	PCI Express, 2.5 GHz/Lane x4 lane	PCI-X, 133 MHz 32- or 64-bit	PCI-X, 133 MHz 32- or 64-bit	PCI-X, 133 MHz 32- or 64-bit	PCI Express, 2.5 GHz/Lane x4 lane	PCI Express, 2.5 GHz/Lane x4 lane	PCI Express, 2.5 GHz/Lane x4 lane	PCI Express, 2.5 GHz/Lane x1 lane	PCI-X, 133 MHz 64-bit	PCI-X, 133 MHz 32- or 64-bit	PCI-X, 133 MHz 32- or 64-bit	PCI Express, 2.5 GHz/Lane x1 lane	PCI, 66 MHz 32-bit
Ports	Dual Port	Single Port	Single Port	Single Port	Single Port	Quad port	Dual Port	Single Port	Dual Port	Single Port	Single Port	Quad Port	Quad Port	Dual Port	Single Port	Quad Port	Dual Port	Single Port	Single Port	Single Port
Supported Slot Height(s)	Full Height & Low Profile	Full Height & Low Profile	Full Height	Full Height	Full Height	Full height	Full Height ²	Full Height ²	Full Height & Low Profile	Full Height & Low Profile	Full Height & Low Profile	Full Height	Full Height & Low Profile	Full Height ²	Full Height & Low Profile	Full Height	Full Height ² & Low Profile	Full Height ² & Low Profile	Full Height ⁴	Full Height ⁴
RoHS-Compliant ¹	Yes	Yes	Yes (Server Exemption)	Yes (Server Exemption)	Yes (Server Exemption)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)	Yes (Server Exemption)	Yes (Server Exemption)	Yes (Server Exemption)	Yes (Lead Free Technology)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)	Yes (Server Exemption)	Yes (Server Exemption)	Yes (Lead-Free Technology ¹)	Yes (Lead-Free Technology ¹)

¹Lead has not been intentionally added, but lead may still exist as an impurity below 1000 ppm or an approved RoHS exemption applies. ²Low-profile brackets included with this product.

³EXPI9300PTL³ is Low Profile ⁴PWLA8391GTL⁴ is Low Profile