

Dual Port 10G PCIe Network Adapter Card - Intel-X550AT 10GBASE-T & NBASE-T PCI Express Network Interface Adapter 10/5/2.5/1GbE Multi Gigabit Ethernet 5 Speed NIC LAN Card

Product ID: ST10GPEXNDPI



This dual-port network card offers versatile and cost-efficient network connectivity, by increasing the available network bandwidth without having to replace your existing cabling infrastructure. The 5-speed network card lets you add two 10G/NBASE-T RJ45 ports to your server or desktop computer and access your network at multiple speeds: 10G, 5G, 2.5G, 1G, and 100Mbps.

Compatible with a broad range of operating systems, this versatile dual-port NIC is ideal for many business applications that require upgrades to servers or workstations. Fully compliant with 10GBASE-T and NBASE-T specifications, the network card is a cost-effective way to enhance your server or computer capabilities by adding two powerful 10-Gigabit Ethernet ports. (10G network speeds require Cat6a cable. All other speeds require Cat5e cable.)

The network card supports advanced NBASE-T technology, compatible with the latest multi-gigabit Ethernet switches and routers, such as new Cisco campus switches (including Catalyst 4500E, 3850 and 3560-CX). The card enables you to connect to NBASE-T based equipment at network speeds of 2.5Gbps or 5Gbps, over your existing Cat5e infrastructure, without having to upgrade to more expensive Cat6a.

NBASE-T technology accelerates the speed of twisted pair Cat5e copper cabling over a distance of up to 100 meters. The Ethernet network card also supports 10Gbps network speeds if using Cat6a cabling, and 1Gbps network speeds if using Cat5e (or better) cabling.

The Ethernet ports are based on the Intel X550AT2 chipset, designed to deliver the power, performance, and enhanced capabilities you need for reliable network connections to your server or computer. The network card also supports advanced features including 9K jumbo frames and 802.1q VLAN tagging.

With a dual-profile design, the PCI Express network card installs easily into a wide range of computer/server chassis, regardless of form factor. The card comes equipped with a standard-profile bracket for installation in a full-sized chassis and includes a low-profile/half-height bracket for installation in small form-factor computers.

Certifications, Reports and Compatibility



Applications

- Ideal for high-demand database servers and mission-critical systems that need redundant network connectivity
- A cost-effective way to add two Ethernet ports to your server or desktop computer, with 5-speed network access
- The controller card utilizes advanced NBASE-T technology, enabling multigigabit connections over your existing Cat5e cabling
- Supports the latest multigigabit technology switches and routers such as new Cisco campus switches including Catalyst 4500E, 3850 and 3560-CX

Features

- DUAL PORT 10GbE NETWORK INTERFACE CARD: 10Gbps Dual port PCIe Network Adapter Card copper combines high data transfer rates to provide redundancy or independent connections to multiple networks
- TECH SPECS: 10 Gbps 2x RJ45 Ports Intel X550AT2 10GBASE-T & NBASE-T Multi-Gigabit 1 / 2.5 / 5 / 10 Gbps PCI Express 3.0 x4 9K Jumbo Frames VLAN VT-c PXE Full & low profile 2Yr Warranty
- TESTED & VERIFIED PERFORMANCE: We use Spirent SmartBits validation tools to validate performance; compatible with major operating systems
- ADVANCED FEATURES: Workstation NIC Supports SAN (Storage Area Network) advanced features including iSCSI offload and Fibre Channel over Ethernet (FCoE)
- WIDE OS COMPATIBILITY: Windows 7, 8, 8.1, 10, 11; Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019; Linux kernels 3.x + (LTS versions)

Hardware

Warranty	2 Years
Ports	2
Interface	RJ45 (10 Gigabit Ethernet)
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)

Industry Standards	IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T) IEEE 802.3az (Energy Efficient Ethernet), PCI Express Rev 3.0
Chipset ID	Intel - X550AT2

Performance

Maximum Data Transfer Rate	10 Gbps
Compatible Networks	10 Gbps/5G/2.5G/1G/100 Mbps
Auto MDIX	Yes
Full Duplex Support	Yes
Jumbo Frame Support	9K max.
Promiscuous Mode	Yes
Supported Protocols	IEEE 802.3X (Flow Control Support), IEEE 802.1q (VLAN tagging)

Connector(s)

Connector Type(s)	1 - PCI Express x4
External Ports	2 - RJ-45

Software

OS Compatibility	Windows 7, 8, 8.1, 10, 11 Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019, 2022 (Windows Drivers are supported in 64-bit only) Linux 3.x and up - LTS Versions only
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Special Notes / Requirements

System and Cable Requirements	Available PCI Express x4 slot For Windows, NBase-T support requires Windows 8 or higher
Note	- Intel NIC Teaming is supported only on Windows Server OS (e.g., Server 2012, 2016) and not on desktop versions like Windows 10 or 11.

Indicators

LED Indicators	2 - Link Speed
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2 - Link/Activity

Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-20C to 60C (-4F to 140F)
Humidity	20% ~ 80% RH

Physical Characteristics

Color	Black
Material	Steel
Product Length	9.0 in [22.8 cm]
Product Width	0.6 in [1.5 cm]
Product Height	5.2 in [13.2 cm]
Weight of Product	3.5 oz [98.0 g]

Packaging Information

Package Quantity	1
Package Length	8.3 in [21.0 cm]
Package Width	5.7 in [14.4 cm]
Package Height	1.6 in [4.1 cm]
Shipping (Package) Weight	7.3 oz [206.0 g]

What's in the Box

Included in Package	1 - network card
	1 - low-profile bracket
	1 - quick-start guide

Warranty Information

Warranty	2 Years
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**Product appearance and specifications are subject to change without notice.*

