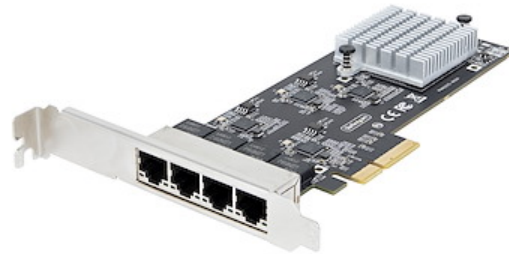4-Port 2.5Gbps NBASE-T PCIe Network Card, Intel I225-V, Quad-Port Computer Network Card, Multi-Gigabit NIC, PCI Express Server LAN Card, Desktop Ethernet Interface
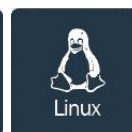
Product ID: PR42GI-NETWORK-CARD

This quad-port 2.5GbE network interface card (NIC) features independent Intel I225-V chipsets for each port with Intel vPro technology, to enhance performance and data integrity across four 2.5G ethernet connections. The variable multispeed options (2.5/1Gbps and 100/10Mbps) enable support for both new and legacy network hardware. Utilize existing Cat5e or CAT6 cabling infrastructure while adding NBASE-T (802.3bz) compatibility for seamless integration.

The PCIe network card leverages Intel vPro technology for remote management and troubleshooting capabilities. Improve bandwidth for data-intensive applications, network sharing, FTPs, online or local storage/backup, and the streaming of online content - while reducing network slowdowns. Access up to 2.5GBASE-T speeds using Cat5e (or better) cabling, to maximize existing networks and equipment. To ensure reliable performance, four Intel I225-V chipsets are used, providing independent Ethernet controllers to each port.

The network interface card connects via an available x4 PCI Express 2.0 (or higher) expansion slot. The card ships in a standard-profile bracket and includes a low-profile bracket for installation into small form factor systems and servers. This ethernet NIC card is compatible with Windows, Windows Server, VMware, and Linux.

This card supports the following advanced features: PXE Boot, WoL, VLAN tagging, 9 K jumbo frame, full-duplex, and Intel vPro technology.

Certifications, Reports and Compatibility

Applications

Features

• 2.5G ETHERNET CARD: High-performance PCIe 2.5Gbps quad-port network card with Intel I225-V chip; Leverage existing Cat5e/Cat6 cabling (or better); NBASE-T compatible (802.3bz); PCI Express 2.0 x4; Independent Ethernet controllers for reliable performance

• IT MANAGEABILITY: Intel vPro for remote management and troubleshooting; PXE boot enabled to deployment speeds/updates; 9K jumbo frame for reduced packet overhead; Remotely boot a system using WoL; VLAN support for efficient network management

• BUILD QUALITY: LAN card features: built-in heatsink to keep controller chips running cool and for optimal performance, LED indicators for link status/speed, LAN transformers maintain signal quality and reduced EMI for reliable communication

• COMPATIBILITY: 2.5GBASE-T variable speed options (2.5 G/1 G/100 M/10 M) with auto-negotiation; Multi-gigabit network interface card for PC is compatible w/ Windows, Windows Server, VMware, and Linux; Low profile bracket included for hardware compatibility

• SPECIFICATIONS: 4x RJ45 Ports, 2.5/1Gbps and 100/10Mbps (Independent controllers) NIC, IEEE 802.3bz (2.5GBASE-T), Full Duplex, Auto MDIX, PCIe 2.0 x2, Intel I225-V, 9K Jumbo Frames, VLAN Tagging, WoL, PXE boot

Hardware		
	Warranty	2 Years
	Ports	4
	Interface	RJ45 (2.5G Ethernet)
	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Port Style	Integrated on Card
	Industry Standards	IEEE 802.3bz (2.5GBASE-T) IEEE 802.3ab (1000BASE-T) IEEE 802.3u (100BASE-TX) IEEE 802.3i (10BASE-TX) IEEE 802.1Q (VLAN) IEEE 802.1p (QoS) IEEE 802.1AS (AVB) IEEE 802.1X (WoL) IEEE P802.3az (EEE) IEEE 1588 (PTP) PCI Express Version 2.0
	Chipset ID	Intel - I225-V

Performance		
	Maximum Data Transfer	2.5 Gbps

	Rate	
	Compatible Networks	2.5G/1G/100Mbps/10Mbps
	Auto MDIX	Yes
	PXE	Yes
	Full Duplex Support	Yes
	Jumbo Frame Support	9K max.

Connector(s)

	Connector Type(s)	1 - PCI Express x4
	External Ports	4 - RJ-45

Software

	OS Compatibility	Windows 10, 11
		Windows Server 2019, 2022
		VMware ESXi 7.0
		Linux 5.8.x and up - LTS Versions only

Special Notes / Requirements

	Note	Ethernet Port 1 (P1) supports WoL (Wake-on-LAN) P2, P3, and P4 do not support the WoL feature.

Indicators

	LED Indicators	4 - Left LED Indicator is Link Status Solid Green: Active Link Flashing Green: Activity
		4 - Right LED Indicator is Link Speed Solid Green: 2.5 Gbps Solid Amber: 1.0 Gbps Off: 100 or 10 Mbps Flashing Green: Activity

Power

	Power Source	Bus Powered

Environmental

	Operating Temperature	0C to 55C (32F to 131F)
	Storage Temperature	10C - 70C (14F - 158F)
	Humidity	5% - 90% RH

Physical Characteristics

	Color	Black
	Product Length	4.7 in [12.0 cm]
	Product Width	6.6 in [16.7 cm]
	Product Height	0.8 in [2.2 cm]
	Weight of Product	3.5 oz [100.0 g]

Packaging Information

	Package Quantity	1
	Package Length	5.7 in [14.5 cm]
	Package Width	8.5 in [21.5 cm]
	Package Height	1.3 in [3.4 cm]
	Shipping (Package) Weight	7.1 oz [200.0 g]

What's in the Box

	Included in Package	1 - 4-Port PCIe 2.5 Gbps Network Card
		1 - Low Profile Bracket
		1 - Quick-Start Guide

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