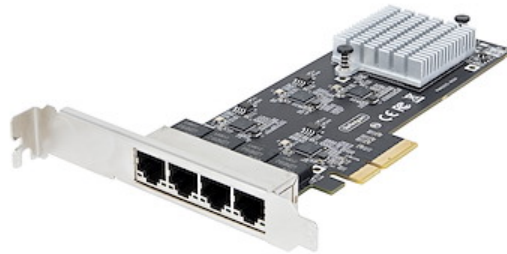4-Port 2.5Gbps NBASE-T PCIe Network Card, Intel I225-V, Quad-Port Computer Network Card, Multi-Gigabit NIC, PCI Express Server LAN Card, Desktop Ethernet Interface
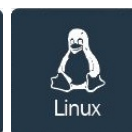
Product ID: PR42GI-NETWORK-CARD

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, 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		
	Wake On Lan	Yes

	Maximum Data Transfer Rate	2.5 Gbps
	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
		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.
		- 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	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	8.5 in [21.6 cm]
	Package Width	5.9 in [15.1 cm]
	Package Height	1.4 in [3.6 cm]
	Shipping (Package) Weight	6.6 oz [186.0 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

Warranty Information

	Warranty	2 Years

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