1-Port 2.5Gbps NBASE-T PoE Network Card, Intel I225-V, 802.3af/at PoE+ Multi-Gigabit NIC, PCI Express Server LAN Card, SATA Powered Desktop Ethernet Interface - Supports Windows, Linux, VMware ESXI

Product ID: PR12GIP-NETWORK-CARD



This 2.5 GbE network interface card (NIC) features an Intel I225-V chipset with Intel vPro technology, to enhance performance and data integrity. 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 Ethernet card supports the IEEE 802.3af and IEEE 802.3at (Type 1 and Type 2) standards for Power Sourcing Equipment (PSE) and can deliver up to 48V DC and 25.5W of power to compliant Powered Devices (PD). This flexibility eliminates the need for a separate power supply or Power Over Ethernet injector for remote networked devices such as IP cameras, access control devices, remote kiosks, and wireless access points.

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.

The network interface card connects via an available x1 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

• Connect Power over Ethernet enabled IP cameras, phones, or Wireless Access Points

• Provide power to remote powered devices that require a PoE power source

• Add multi-gigabit connectivity to a desktop or server

Features

• 2.5G POE ETHERNET CARD: High-performance PCIe 2.5Gbps network card with Intel I225-V chip; Leverage existing Cat5e/Cat6 cabling (or better) without the use of a Power over Ethernet injector; NBASE-T compatible (802.3bz); PCI Express 2.0 x1

• POE+ COMPLIANT: Ethernet NIC provides up to 30W PSE and 25.5W PD at 48V DC to a connected device; Supports IEEE 802.3af (PoE) and 802.3at (PoE+) to power remote devices such as access points, RFID readers, and IP cameras

• IT MANAGEMENT: Intel vPro for remote management and troubleshooting; PXE boot enabled for centralized OS deployment and updates; 9K jumbo frame for reduced packet overhead; Remote system boot via 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, and LAN transformers maintain signal quality and reduced EMI for reliable communication

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

Hardware

Warranty	2 Years
Ports	1
Interface	RJ45 (2.5G Ethernet)
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)

	Industry Standards	IEEE 802.3at Power over Ethernet IEEE 802.3af Power over Ethernet 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 Rate	2.5Gbps
	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 x1
	Internal Ports	1 - SATA Power (15 pin)
	External Ports	1 - RJ-45 (PoE+)
Software		
	OS Compatibility	Windows 10, 11 Windows Server 2019, 2022 Linux 5.8.x and up - LTS Versions only VMware ESXi 7.0
Indicators		
	LED Indicators	1 - Left LED Indicator is Link Status Solid Green: Active Link Flashing Green: Activity 1 - Right LED Indicator is Link Speed Solid Green: 2.5 Gbps Solid Amber: 1.0 Gbps Off: 100 or 10 Mbps
Power		
	Power Source	Bus Powered
	Output Voltage	48 DC

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 [11.9 cm]
	Product Width	2.1 in [5.4 cm]
	Product Height	0.6 in [1.6 cm]
	Weight of Product	2.2 oz [62.0 g]
Packaging Information		
	Package Length	8.3 in [21.2 cm]
	Package Width	5.6 in [14.2 cm]
	Package Height	1.3 in [3.3 cm]
	Shipping (Package) Weight	5.3 oz [150.0 g]
What's in the Box		
	Included in Package	1 - Network Card
		1 - Low Profile Bracket
		1 - Quick-Start Guide

Product appearance and specifications are subject to change without notice.