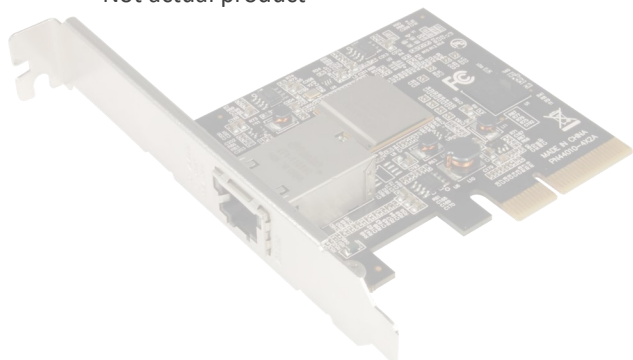# Sunrich Technology

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*Not actual product

N-490

PCIe 10G NBASE-T
Single Port Network Adapter

Sunrich Technology is the leading manufacturer of I/O connectivity products for desktops, notebooks, and tablets.

Overview

The N-490 PCIe 10G NBASE-T Single Port Networking Adapter provides single-port connectivity that allows a server, workstation, or gaming desktop computer to join a network in your home, business or datacenter with ease.

The network card incorporates AQtion™ patented technologies to offer a low cost, high-performance, and low power solution. The 10G NBASE-T Network Adapter Card connects directly into your PCIe x16, x8, or x4 slot on your motherboard and is compatible with Windows, and Linux operating systems. With the QoS support, you can prioritize data ensure the highest quality service from your most data hungry applications.

Applications

Support higher resolution, frames-per-second, and bit rate when pairing the 10G NBASE-T Network adapter with your high performance industrial cameras, free up more of your CPU and decrease latency to achieve greater gaming accuracy, or Increase more VMs per Network Controller to increase productivity and efficiency.

Key Features

- 10Gbps Networking delivers up to 10X-faster data-transfer speeds for bandwidth-demanding tasks over existing cabling

- Full Compatibility network speeds of 10/5/2.5/1Gbps and 100Mbps, for seamless backward compatibility

- Windows and Linux support for increased compatibility

- The RJ45 port is a standard used in most offices and homes, to utilize the low cost of standard copper network cabling

- Lower CPU utilization and increased network performance through AQtion™ technology

- Supports Quality of Service (QoS) to help increased performance for the more data intensive tasks

- NBASE-T supports speeds of 5G/2.5G over existing Cat-5E cabling

System Compatibility

- Windows® Server 2012R2, Server 2012, Server 2008R2, Windows® 7/8/8.1/10

- Linux 3.2 and later

Warranty

- 2 years limited

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Features	Benefits
Advanced Cable Diagnostics	High resolution cable analyzer
Audio Video Bridging (AVB) and 1588v2	Time-sensitive packet management
LSO/RSS/DCA header checksum	Increase in network performance and decrease in CPU load
WoL Power Management	Supports low power mode
Quality of Service (QoS) support	Supports up to 8 traffic classes Data Center Bridging (DCB) support
Jumbo frames (up to 9K)	Improved network performance
IPv4/IPv6 (TCP/UDP) checksum offload	Offloads calculations for decrease in CPU usage

Specifications	
Chipset	AQUANTIA AQC107
Interface	PCI Express Rev 3.0 Specification (8 GT/s) Backwards compatible with PCI Express Gen2, and Gen1
Bus Width	PCIe Gen3 x4
External Connector Type	1x RJ45
Cable	100 Meters of CAT-5E at 5GbE-100Mbps 100 Meters of CAT-6A at 10GbE
Supported Data Rates	10G/5G/2.5G/1G/100Mbps
Standard Compliance	IEEE 802.3an(10GBASE-T), IEEE 802.3bz(NBASE-T), IEEE 802.3x(flow control), IEEE 802.1P(QoS), IEEE 802.1QAV(AVB)
EMC Standards	FCC, CE
OS Driver Support	Windows 10/8.1/8/7 (32-bit/64-bit), Linux 3.2/3.10/3.12/4.2/4.4
Utilities Supported	Windows Diagnostics, Windows Installer Utilities
Management Supported	WOL, ACPI (Advanced Configuration and Power Interface)
Boot Options	UEFI (Unified Extensible Firmware Interface) 2.3/2.5, PXE (Preboot Execution Environment) 2.0

For more information contact us at **info@sunrichtechnology.com**