Sunrich Technology

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USB 3.1 Gen 1 to NBASE-T Network Adapter

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

Overview

The USB 3.1 Gen 1 to NBASE-T Networking Adapter provides single-port connectivity that allows a server, workstation, tablet, or laptop computer to join a network in your business or datacenter with ease.

The network adapter incorporates AQtion™ patented technologies to offer a low cost, high-performance, and low power solution. The USB 3.1 Gen 1 to NBASE-T Network Adapter connects directly into your USB Type-C port on your computer and is compatible with Windows, and Linux operating systems. With the QoS support, you can prioritize data to ensure the highest quality service from your most data hungry applications. A screw lock is included for the USB and RJ45 connectors to ensure your cables stay secure.

Applications

Support higher resolution, frames-per-second, and bit rate when pairing the USB 3.1 Gen 1 to 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

- NBASE-T Networking delivers up to 5X-faster data-transfer speeds for bandwidth-demanding tasks over existing cabling

- Full Compatibility network speeds of 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

- Optional USB Type-C port with USB PD 2.0 to charge your device

- Screw lock for USB Type-C and RJ45 included

System Compatibility

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

- Linux 3.2 and later

- macOS

Warranty

- 2 years limited

Features	Benefits
Advanced Cable Diagnostics	High resolution cable analyzer
Audio Video Bridging (AVB) and 1588v2	Time-sensitive packet management
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 16K)	Improved network performance
IPv4/IPv6 (TCP/UDP) checksum offload	Offloads calculations for decrease in CPU usage
Cable Management	RJ45 and USB Type-C screw locks Included

Specifications	
Chipset	AQUANTIA AQC111U
Interface	USB v3.1/3.0/2.0/1.1 compliant
External Connector Type	1x RJ45
Cable	100 Meters of CAT-5E at 5GbE-100Mbps
Supported Data Rates	5G/2.5G/1G/100Mbps
Standard Compliance	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 Apple® macOS® X
Utilities Supported	Windows Diagnostics, Windows Installer Utilities
Management Supported	WOL, ACPI (Advanced Configuration and Power Interface)

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