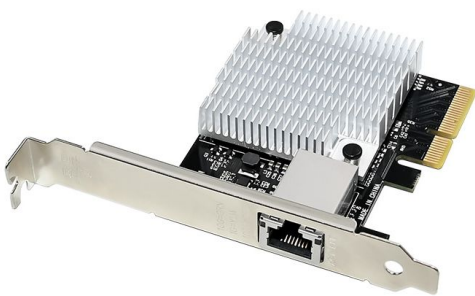


ALLNET PCIe 10G X4 10G/5G/2,5G/1GBit Single Port PCIe LAN Card - Copper RJ45 "NbaseT" ALL0138v4-1-10G-TX

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EAN CODE



Highlights:

The PCIe x4 AQC107S 10GbE Ethernet card is a high-performance, multi-gigabit Ethernet card that supports the 10GBASE-T/5GBASE-T/2.5GBASE-T/1000BASE-T/100BASE-T, the AQtion Ethernet controller easily handles the 10GbE Line-rate performance.

The AQC107 incorporates Aquantia's AQrate PHY technology which delivers 10GbE network connectivity speed through Cat 6a, and delivers 5 GbE and 2.5 GbE network connectivity speed through 100 meters of Cat 5e or better cabling enabling higher data rates with zero change to legacy cabling.

FEATURES

- Compliant with PCIE Express Revision 3.0 and downstream with PCI Express Revision 2.0
- Supports line rate of 8.0GT/s and 5.0GT/s per lane
- Supports communication and management function
- Integrated Aquantia AQrate PHY featuring NBASE-T technology
- Supports PHY specifications with 10GBASE-T/5GBASE-T/2.5GBASE-T/1000BASE-T /100BASE-T.
- On-chip high resolution cable analyzer for advanced cable diagnostics
- Energy Efficient Ethernet (EEE) Support



- Supports IEEE1588v2 Precision Time Protocol
- Support large send offload, Receive Side Scaling (RSS), Direct Cache Access (DCA) and Header checksum for increased network performance and lower host CPU utilization
- Supports IPv4, IPv6 and IPv6/UDP checksum offload
- Supports Jumbo frame (up to 16kbytes)
- Quality of Service (QoS)
- Supports up to eight traffic classes and Data Center Bridging (DCB)

Target Applications

- Marvell AQtion power leading -edge solutions for motherboards, PCs, Workstations, docking station, NAS, Router, Gateways and other embedded applications

System Requirements

- Drivers: Windows 10/8.1/8/7, Linux 3.10 and higher
- Utilities: ROM programming and Windows Installer
- Boot Options: UEFI and PXE

Technical Details:

Essentials	
Product Collection	Network 10G mGig
Controller Processors	Marvell AQC107S
Bus Type	PCI Express Gen 3x2 or Gen 2x2
Media Copper	100 meters over Cat 6a at 10Gbps 100 meters over Cat 5e (or better) at 5Gbps/2.5Gbps/1Gbps/ 100Mbps (requires no change to existing infrastructure or cabling)
Boot Options	UEFI and PXE
Bracket	Full-height bracket installed. Low-profile bracket included in package
Dimension	79 mm x 68 mm (PCIe Board)



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Technical Specifications	
Network protocol	IEEE802.3an, IEEE802.3bz, IEEE802.3ae, IEEE1588v2, IEEE802.3ab, IEEE802.3z, IEEE802.3u
Jumbo frames	16Kbytes
IPv4/IPv6 Flow Control	Support
Boot Options	UEFI and PXE
System Requirements	
Windows Client	Windows 10/ 8.1/ 8/ 7, Windows Sever 2012/ 2012 R2/ 2016/ 2019
Linux Client	Linux kernel: 2.6.32/3.x/4.x or higher, Linux CentOS/RHEL6.5/7.X or higher, Ubuntu: 14.x/15.x/16.x or higher, VMware: ESX/ESXi 4.x/5.x/6.x or higher
Environment & Certification	
Power Consumption	Max. 3.8W at 10Gbps, 3.0W at 5Gbps
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Operating Temperature	0 °C to 55 °C (32 °F to 131 °F)
LED Indicators	LINK (solid) and ACTIVITY (blinking) LINK S PEED (green=10 G bps; yellow=1 G bps)
Marks	CE FCC RoHS