

# ALLNET PCIe 10G X4 10G/5G/2,5G/1Gbit Single Port PCIe LAN Card - Copper RJ45 "NbaseT" ALL0138v2-1-10G-TX

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## EAN CODE



## Highlights:

- PCIe x4 Single-port RJ45 10G Ethernet Network adapter v2 (Aquantia AQtion AQC107)
- Low cost, low power, energy-efficient Ethernet.
- 1 Gbps to 10 Gbps, 5 Gbps, 2.5 Gbps and 100M data rates.
- Jumbo frame support up to 9.6 KB.
- Extensive software support: Windows and Linux drivers; UEFI and PXE
- remote boot.
- PCI Express v3.0 x4 lanes.
- MSI, MSI-X, LSO, RSS and IPv4/IPv6 checksum offload.

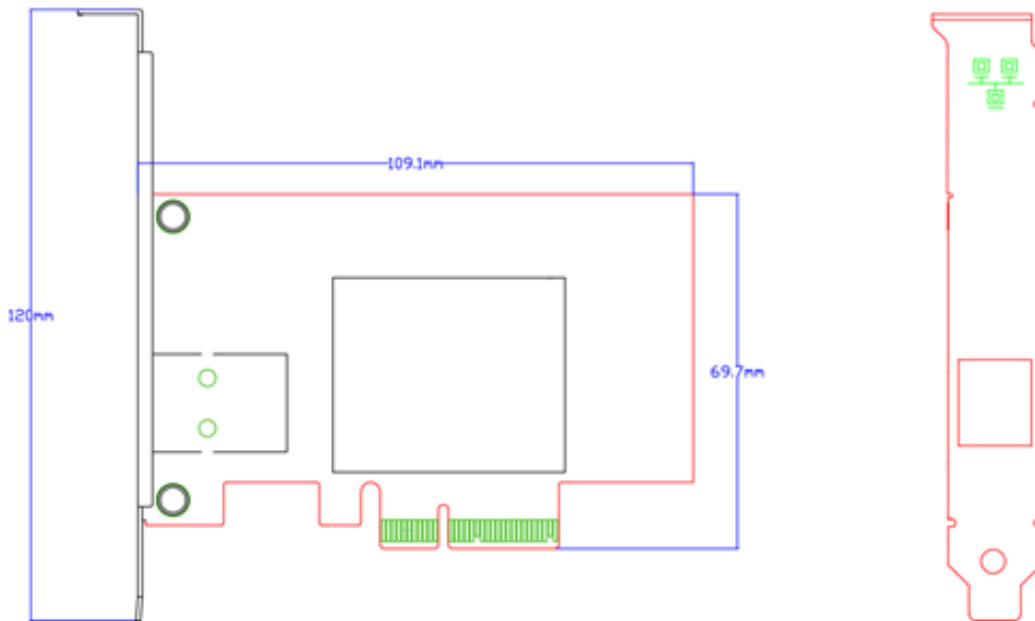
## Overview

ALL0138v3-1-10G-TX is a PCI Express v3.0 x4 single-port 10 Gigabit Ethernet network adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Aquantia AQtion AQC107 chip solution. It is also compatible with PCIe x8 and x16 channels. A high-performance, five-rate NIC adapter that integrates PCIe, MAC, and PHY to provide power and space-efficient connectivity to client systems. The PCIe3.0 x4 universal interface gives this product great flexibility.

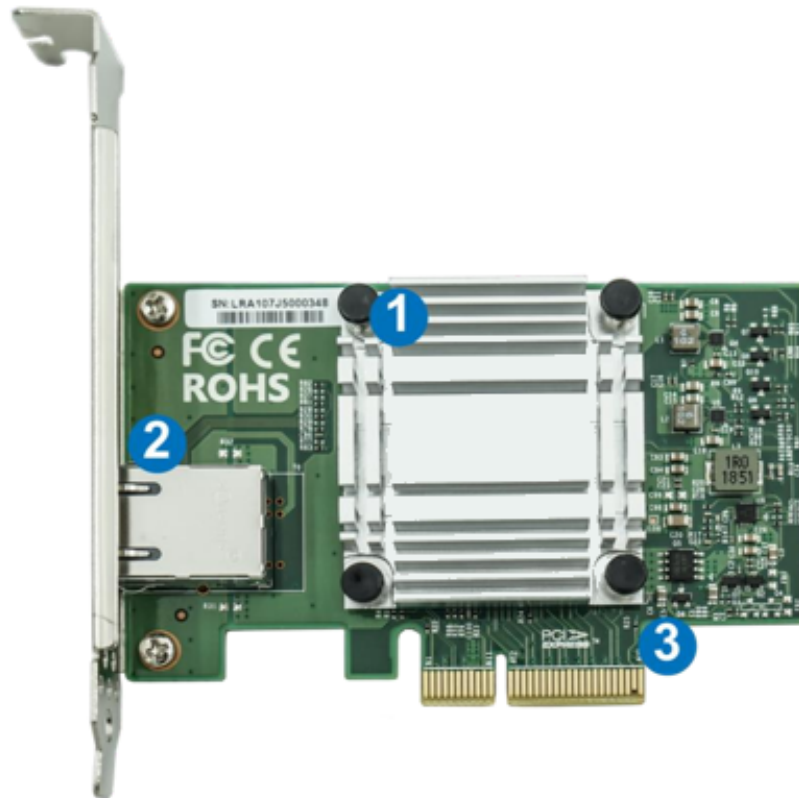
The integrated PHY can be routed through Cat 6a at speeds up to 10 Gbps over a distance of 100 meters. It also supports 5 Gbps network connections over traditional Cat 5e or Cat 6 cabling.

The ALL0138v3-1-10G-TX is IEEE 802.3an & IEEE 802.3bz compliant and enables 2.5GBASE-T, 5GBASE-T,

10GBASE-T, 1000BASE-T and 100BASE-TX transmission over 100m twisted pair cabling. MSI, MSI-X, LSO, RSS and IPv4/IPv6 checksum offload for high performance and low CPU utilization with up to 16 KB of massive data frame support.



## Product Structure



- 1、 Heat Sink
- 2、 10G RJ45 connector
- 3、 PCIe x4 Bus

PS: Above details are only for reference, if there is any change no prior notice.

## Technical Details:

Controller	Aquantia AQtion AQC107
Transmission medium	Copper
Copper Type	10GBase-T, Cat 6 or higher up to 100m
	5GBase-T, Cat 5e or higher up to 100m
	2.5GBase-T, Cat 5e or higher up to 100m
	1GBase-T, Cat 5e or higher up to 100m
	100MBase-T, Cat 5 or higher up to 100m



Baffle Height	Low Profile & Full Height
Power Consumption	4.7W
OS Support	Windows 7/8/8.1/10
	Windows Server 2008 R2 /2012 R2 /2016 R2 /2019 R2
	Linux Stable Kernel version 2.6.32/3.x/4.x or later
	Linux CentOS/RHEL 6.5 / 7.x or later
	Ubuntu 14.x/15.x/16.x or later
Bus Type	PCIe v2.1 x4 , compatible with x8 , x16
Data rate per port	100/1000/2500/5000/10000Mbps
Connector	1*10G RJ45

## Technical Features

Standards compliant	IEEE 802.3an 10 Gbit/s Ethernet over unshielded twisted pair IEEE 802.3bz 2.5/5GBASE-T  IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.1Q VLANs  IEEE 802.3x Full Duplex and flow contro  IEEE 802.3az - Energy Efficient Ethernet (EEE)
iSCSI	No
WoL	Yes
Jumbo Frames	Yes
DPDK	Yes
PXE	Yes
FCoE	No

## Environment Features

Operating Temperature	0? to 55? (32? to 131?)
Storage Temperature	-40? to 70? (-40? to 158?)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35?
Certification	FCC, RoHS, CE

## Physical Features



Art.-Nr.: 217469  
Herst.-Nr.: ALL0138v3-1-10G-TX

Size (mm $\pm 0.5$ mm)	117*120*21
Weight (g $\pm 2$ g)	200

### LED Indication

LED indication	1000Mbps , Green bright + Green flashing
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