



Solo10G™ PCIe® Card

10GBASE-T 10 Gigabit Ethernet PCI Express 3.0 Adapter Card with NBASE-T Ethernet Support

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Overview

Tech Specs

Videos

Part No.

G10E-1X-E3

Solo10G PCIe Card
10GBASE-T/NBASE-T Ethernet PCI Express 3.0 Adapter Card

Hardware

Warranty

2-year

Form Factor

Low-profile PCIe computer card

External Connector

One RJ45 port

Bus Interface

PCI Express v3.0, x4

10GbE Controller

Aquantia AQC-107S

10GBASE-T

- 100 meters using CAT6A cabling
- 55 meters using CAT6 cabling

Network Support

5GBASE-T, 2.5GBASE-T, 1000BASE-T, 100BASE-TX

- 100 meters using CAT 5e (or better) cabling⁽¹⁾

Packets

Maximum packet size: 16352 bytes (jumbo frames)
9000 bytes under macOS

Data Rates Supported

10 Gb/s, 5 Gb/s, 2.5 Gb/s, 1 Gb/s, 100 Mb/s

Advanced Features

- Flow control support
- MSI (Message Signaled Interrupts)
- RSS (Receive-Side Scaling)
- Interrupt coalescing
- Multicast filtering
- Energy-Efficient Ethernet (IEEE 802.3az)
- AVB (IEEE 802.1Qav, Audio Video Bridging)⁽²⁾
- 64-bit address support for systems using more than 4GB of physical memory
- PCIe networking cards cannot support Wake-on-LAN

Stateless Offloads

- TCP, UDP and IPv4 checksum offloading
- TSO (TCP Segmentation Offload, AKA Large Send Offload)

Computer Compatibility

Mac Pro® (Mid 2010 or newer), PC desktop, or server with full-height or low-profile PCIe slots

OS Compatibility

macOS® 10.13.6+

macOS Catalina compatible

Windows® 10, 8, 7; Server 2016, 2012

Linux®

Thunderbolt Compatibility

Mac via a Thunderbolt 2 or Thunderbolt 3 to PCIe card expansion system

Windows computer running Windows 10 Build 1809 or newer (64-bit edition), via a Thunderbolt 3 to PCIe card expansion system

Technical Notes

- 2.5G/5G speeds are supported when used with NBASE-T compatible (multi-Gigabit) switches.
- Switch/router must support AVB to support this feature.



For Windows



RoHS COMPLIANT

- LRO (Large Receive Offload)
- RSS (Receiver Side Scaling)

RoHS Compliant	Yes
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Package Contents	<ul style="list-style-type: none">◦ Solo10G PCIe Card◦ Two mounting brackets (full-height and low-profile)◦ Documentation
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Specifications subject to change without notice.

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