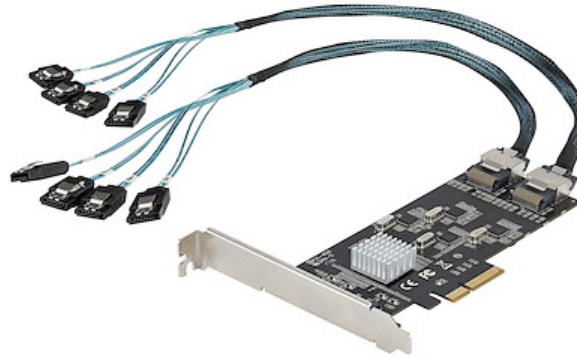8 Port SATA PCIe Card - PCI Express 6Gbps SATA Expansion Adapter Card with 4 Host Controllers - SATA PCIe Controller Card - PCI-e x4 Gen 2 to SATA III - SATA HDD/SSD

Product ID: 8P6G-PCIE-SATA-CARD

This 8-port SATA III (6Gbps) controller enables you to add eight SATA 6Gbps hard drives (HDDs) or solid State Drives (SSDs) to your computer system or server via an available PCIe x4 card slot. The card supports SATA III and PCI-Express Gen 2 Specifications and four SATA controllers to deliver a high-performance data storage solution.
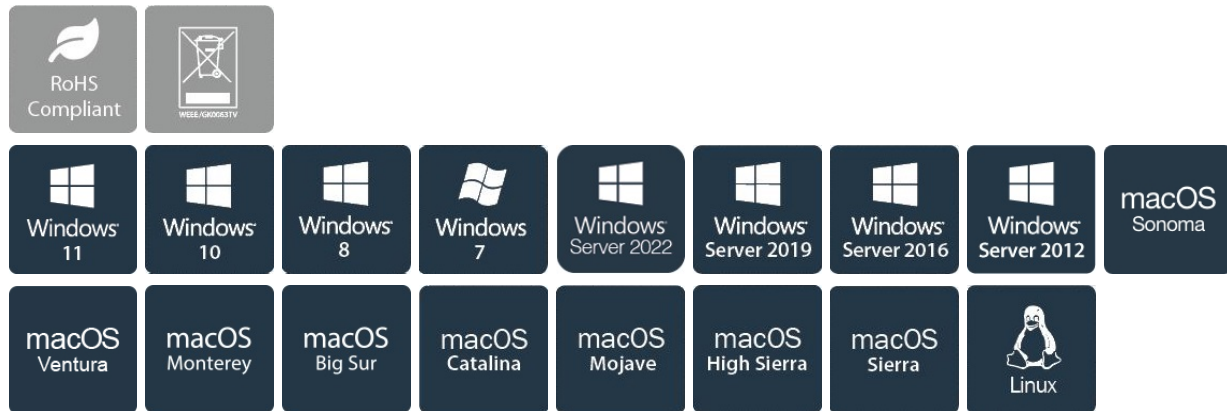
Featuring four 2-Port SATA 6Gbps controllers and a PCIe-x4 MUX, this SATA card enables the connection of eight high-performance SATA 6Gbps drives with a combined total throughput of up to 16Gbps. The SATA drives are connected via two Mini-SAS ports with two included Mini-SAS to 4x-SATA adapter cables. To ensure a secure connection, each SATA port on the included cables features a locking connector, that will prevent the drive from accidental disconnection when working inside your computer case.

The PCIe MUX that's built into this controller card manages the downstream controllers, which improves motherboard compatibility by ensuring the card will work with motherboards that support bifurcation and motherboards that do not. To further improve motherboard compatibility the card does not have a built-in RAID controller, but fully supports the use of software RAID. Plus, with supports for PCIe Gen 2 and SATA III Specifications this card ensures backward compatibility with previous generations (SATA I/II, PCIe Gen 1) at lower performance.

The controller card is widely supported across all popular operating system platforms including Windows (XP and above), macOS (10.6.8 and above) and Linux (2.6.32 and above LTS kernels only).

The SATA controller card features plug-and-play installation and can be installed in full-profile and low-profile computer systems with a full-profile bracket preinstalled, and an interchangeable low-profile (half-height) bracket included. The card also supports storage software data management systems such as Storage Spaces (Microsoft) , RAID Assistant (MacOS) and mdraid/mdadm (Linux), for hassle-free setup, partitioning and software RAID array building.

Certifications, Reports and Compatibility

Applications

• Add eight SATA 6Gbps drives to your desktop computer or server

• Manage your drives and built RAID arrays with storage management systems such as Storage Spaces (Microsoft) , RAID Assistant (macOS), mdraid/mdadm (Linux)

Features

• HIGH-PERFORMANCE: Add eight SATA III 6Gbps ports to your desktop computer or server using a PCIe x4 Gen 2 slot to connect SATA drives (HDD/SSD); 8-Port SATA PCIe Card features 2x Mini-SAS connections with Mini-SAS to 4x locking SATA adapter cables incl.

• QUAD CONTROLLERS: This PCI Express SATA 6 card features a PCIe MUX and four 2-Port SATA host controllers; This architecture allows for eight total SATA (serial ATA) 6Gbps ports through a single x4 PCIe slot, enabling combined total throughput up to 16Gbps

• COMPATIBILITY: Supports PCIe Gen 2 & SATA III Specs, and previous generations at lower performance; Windows XP and up, macOS 10.6.8 and up, Linux 2.6.32 and up (LTS kernels only); Motherboard compatibility with no bifurcation required & no built-in RAID

• EASY INSTALL: Expansion card w/ plug-and-play setup in full or low-profile PCI-e slot (full-profile bracket installed, low-profile incl); Supports storage management systems such as Storage Spaces (Microsoft) , RAID Assistant (macOS), mdraid/mdadm (Linux)

• THE IT PRO'S CHOICE: Designed and built for IT Professionals, this SATA PCIe controller card converter is backed for 2-years, including free lifetime 24/5 multi-lingual technical assistance

Hardware

Warranty	2 Years
Ports	8
Interface	SATA

	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Industry Standards	Serial ATA 3.0 specification - SATA I/II/III (1.5/3/6Gbps)
		PCI Express Base Specification Revision 2.0
	Chipset ID	Pericom - PI7C9X2G608GP
		ASMedia - ASM1061

Performance

	Maximum Data Transfer Rate	6 Gbps
	TRIM Support	Yes
	4Kn Support	Yes
	S.M.A.R.T. Support	Yes
	Type and Rate	SATA III (6 Gbps)
	Port Multiplier	Yes
	Bootable	Yes
	Hardware Raid Supported	No
	ATAPI Support	Yes

Connector(s)

	Connector Type(s)	1 - PCI Express x4
	Internal Ports	2 - SFF-8087 (36 Pin, Internal Mini-SAS)

Software

	OS Compatibility	Windows 7, 8, 8.1, 10, 11
		Windows Server 2003, 2008 R2, 2012, 2012 R2, 2016, 2019, 2022
		macOS 10.10 to 26
		Linux 2.6.32 and up - LTS Versions only

Special Notes / Requirements

	Note	The port multiplier functionality is only available on Windows 10/11 by using the ASMedia driver, which can be found in the

"Downloads" section

Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-20C to 60C (-4F to 140F)
Humidity	20~80% RH

Physical Characteristics

Color	Black
Cable Length	1.6 ft [0.5 m]
Product Length	5.9 in [15 cm]
Product Width	4.7 in [12 cm]
Product Height	0.7 in [1.8 cm]
Weight of Product	0.1 lb [0.1 kg]

Packaging Information

Package Quantity	1
Package Length	9.1 in [23.2 cm]
Package Width	6.2 in [15.7 cm]
Package Height	2.3 in [5.8 cm]
Shipping (Package) Weight	9.0 oz [254.0 g]

What's in the Box

Included in Package	1 - PCIe SATA Card
	2 - 20 in. (50 cm) Mini-SAS to 4x SATA Cable
	1 - Full-Profile Bracket (Installed)
	1 - Low-Profile Bracket
	1 - Quick-Start Guide

Warranty Information

Warranty	2 Years

Product appearance and specifications are subject to change without notice.