



Phoenix Blade PCIe SSD

User Manual



Specification

GENERAL	
Model Name	G.SKILL Phoenix Blade
Model Number	FM-PCx8G2R4-480G
Interface	PCI Express 2.0 x8
NAND Flash	MLC
NAND Controller	LSI SF-2281 x 4
User Capacity	480GB
Applications	Gaming, Multimedia
Power Requirement	Standard PCIe 12V and 3.3V
Data Encryption	AES-128
OS Bootable	Yes
TRIM	SCSI UNMAP, IOCTL

PERFORMANCE	
Max Read Speed	2000 MB/s (IOMETER)
Max Write Speed	2000 MB/s (IOMETER)
Sequential Read	1900 MB/s (CrystalDiskMark)
Sequential Write	1050 MB/s (CrystalDiskMark)
4k Random Read	Up to 90,000 (IOMETER)
4K Random Write	Up to 245,000(IOMETER)
4KB Latency	Up to 65μs(read)/50μs(write)

ENVIRONMENTAL	
Power Consumption	Idle: 8W Max Read Workload: 15W Max Write Workload: 18W
Operating Temp.	0°C ~ 55°C
Storage Temperature	-40°C ~ 75°C
Airflow Requirement	300 Linear Feet/Minute
Certifications	CE, RoHS, FCC, WHQL

RELIABILITY	
ECC	BCH, up to 55 bits per sector
Flash Failure Recovery	RAID-5-like data protection from Flash page/block failures
Write Endurance	>1536 TiB
MTBF	1,000,000 hours
Health Monitoring	S.M.A.R.T.

PHYSICAL	
Form Factor	Half Height
Dimensions (mm)	170 x 70 x 21
Weight	275g

COMPATIBILITY	
PCI Express	PCI Express Base Specification Revision 2.0; PCI Express CEM Specification Revision 2.0; PCIe x8 or x16 slot
Operating Systems	Windows 7, 8, 8.1

SERVICE & SUPPORT	
Warranty	3 Years Limited
Support	techsupport@gskill.com ustech@gskillusa.com eurotech@gskill.com

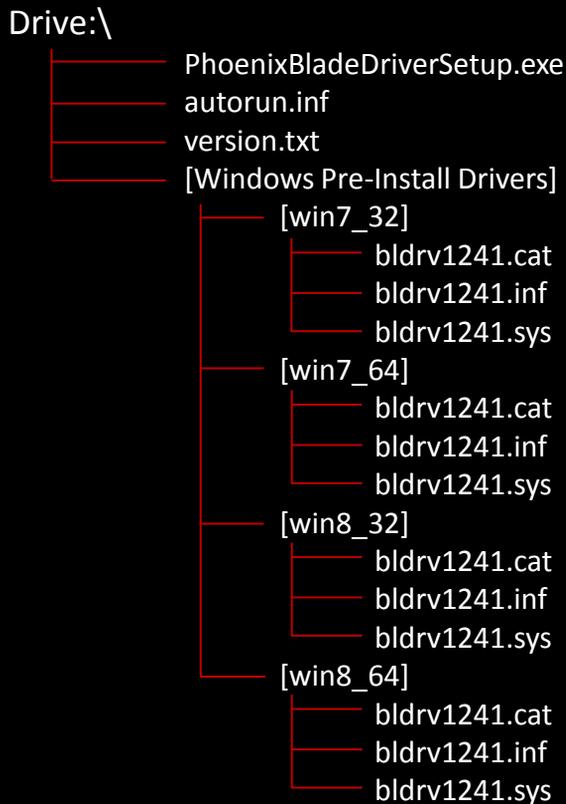


Installation

- A. Installing the Phoenix Blade PCIe SSD in your system
 1. Remove the Phoenix Blade PCIe SSD from the packaging.
 2. Locate a PCIe x8 slot on your motherboard.
 3. Firmly insert the Phoenix Blade PCIe SSD connector into a PCIe 2.0 x8 slot on your motherboard.
 4. Install PCIe SSD driver. (Refer to the next page for driver installation instructions)

Driver Installation

File map of driver disc:



A. Installing as Storage Drive

1. Install “PhoenixBladeDriverSetup.exe” driver from disc.
2. Follow on-screen instructions and complete installation.
3. Restart system when prompted.

B. Installing as Operating System Drive

1. Insert Windows installation CD/DVD into disc drive
2. When prompted to install third-party SCSI or RAID driver, press the “F6” key, then press “S” for “Specified Additional Device”.
3. Insert driver disc (or USB flash drive with drivers copied from the [Windows Pre-Install Drivers] folder) and follow on-screen instructions to complete driver and Windows installation.



Troubleshooting & FAQ

1. My system can't detect the PCIe SSD!

- > Does the Windows hardware manager detect an unknown storage device? If yes, please install PCIe SSD driver from the driver disc. If no, please make sure PCIe SSD is firmly installed in a functioning PCIe 2.0 or 3.0 x8 slot.

2. The PCIe SSD is slow!

- > Please make sure that the PCIe SSD is installed in a PCIe 2.0 x8 slot. If the Phoenix Blade PCIe SSD is installed in a PCIe 1.0 x8 or a PCIe 2.0/3.0 x4 slot, then the SSD will not be able to perform at its fullest potential.

3. I cloned my system drive to the Phoenix Blade PCIe SSD, and now the system won't detect the PCIe SSD or boot from the PCIe SSD!

- > Please install the PCIe SSD driver on the source system drive prior to cloning the drives to the Phoenix Blade PCIe SSD. By doing so, the clone system drive will have the required driver to boot as system drive.

If you have any other questions, please feel free to contact our technical support at techsupport@gskill.com, eurotech@gskill.com, or ustech@gskillusa.com.

Thank you!



Warranty

G.SKILL Three-Year Limited Warranty

G.SKILL Phoenix Blade PCIe SSD carry a three-year limited warranty, which guarantees the products to operate, as specified by its datasheet, in the operating environment for which they were intended, for the duration of the warranty. G.SKILL Phoenix Blade PCIe SSD is covered by this warranty for a period of three years from the date of original manufacture (indicated by serial number). Discontinued and out of warranty G.SKILL products are not eligible for replacement or repair.

Warranty Exclusions

G.SKILL warranty does not apply to any G.SKILL product on which original identification information or warranty stickers have been altered, defaced, or removed. G.SKILL warranty also does not cover any product with damage that result from accident, misuse, neglect, abnormal mechanical or environmental conditions, natural disasters, unauthorized disassembly or modifications, improper installation or assembly, removal or reassembly of heat spreader, improper packaging or handling, insufficient or excessive electrical supply. G.SKILL warranty is also void under the following conditions: missing, damaged, or bent pins; missing, detached, or loose chips; damaged or missing connectors; damaged, detached, or missing casing or heat spreaders.

G.SKILL will not be liable for, and does not cover under warranty: recovery of data; installation of G.SKILL products; inspection or testing costs; installation and removal fees; and general, consequential, incidental, or special damages which include, but not limited to, loss of data and loss of profit.