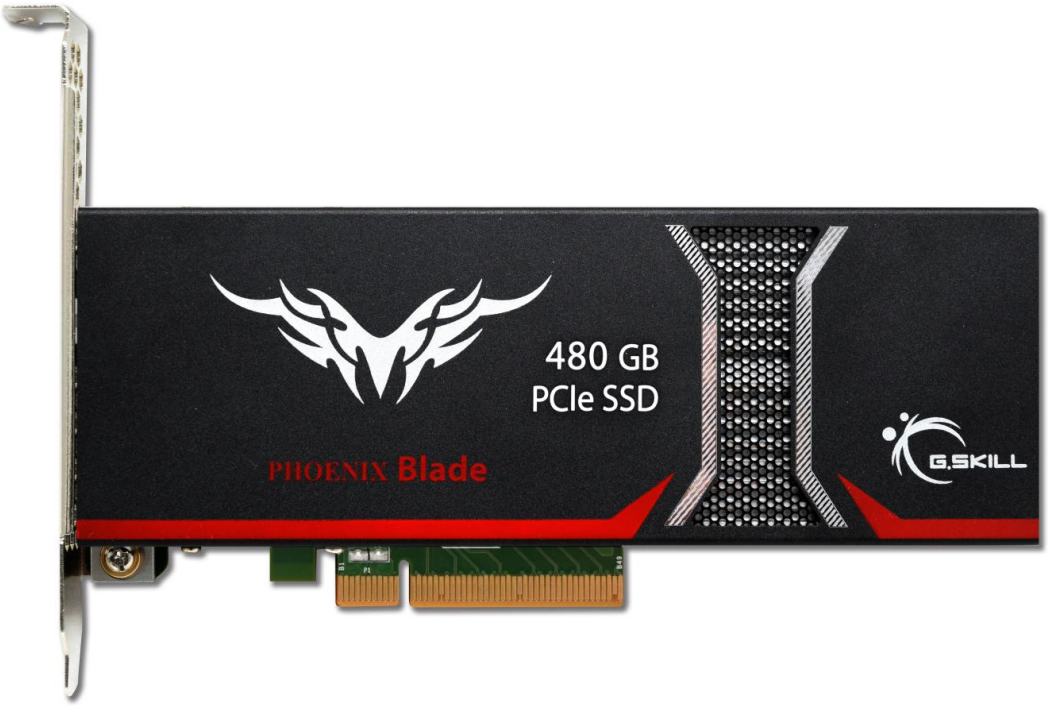
G.SKILL Phoenix Blade Series PCIe SSD



OVERVIEW

Designed with the latest flash-based solid state storage technology and integrating error correction and failure handling support, G.SKILL Phoenix Blade Series PCIe SSD provides an extremely reliable high-bandwidth, high-capacity data storage solution for high-end performance systems.

Extreme Read and Write Performance

Pushing sequential read throughput up to 2000MB/s and 4KB random IOPS up to 245K, large data transfers and load times are faster than before.

Enhanced Data Protection

CRC data protection prevents data that is being transferred in and out of the drive from being corrupted. By implementing BCH ECC of up to 55 bits per sector and RAID-5-like data protection, flash cell errors and page/block failures are yesterday's news.

Key Advantages

- Max Throughput up to 2000MB/s
- 4KB Random IOPS up to 245K
- Enhanced Data Protection
- SMART and TRIM/UNMAP Support
- Low Burden to System Resources
- Cost-Effective MLC-Based Design

Extensive S.M.A.R.T. Attributes

Offering an extensive set of S.M.A.R.T. attributes allow users to monitor the drive's health, this feature allows the users to take preventative measures against possible data loss.

Extend SSD Lifetime with TRIM and SCSI UNMAP

TRIM and SCSI UNMAP support with major Windows OS versions help maintain consistent write performance, reduce flash deterioration, and most importantly, extend product lifetime.

Datasheet
G.SKILL Phoenix Blade Series PCIe SSD

TECHNICAL SPECIFICATIONS

GENERAL	
Model Name	Phoenix Blade PCIe SSD 480GB
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 Temperature	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

For more information, please visit the G.SKILL website at www.gskill.com.

Rev.140618