



MP600 ELITE FOR PS5 M.2 SSD

CSSD-F1000GBMP600ECS

CSSD-F2000GBMP600ECS

REVIEWER'S GUIDE



MP600 ELITE FOR PS5

NVMe Gen4x4 PCIe M.2 SSD

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PREFACE



This reviewer's guide will introduce you to the new CORSAIR MP600 ELITE FOR PS5 PCIe 4.0 M.2 SSD. Included are in-house performance numbers and detailed specifications.

Imagery and Downloads

CORSAIR Logo Usage Guidelines	http://www.corsair.com/press
Product Images – MP600 ELITE FOR PS5	https://corsair.mediavalet.com/portals/MP600_ELITE_PR access code: ww@123qp64

Information

Please do not hesitate to reach out to your local PR representative if you:

- Require any additional information about the product
- Encounter any issues during the testing and evaluation process
- Have any questions regarding results or conclusions



MP600 ELITE FOR PS5

NVMe Gen4x4 PCIe M.2 SSD

Please see the [CONTACTS](#) section to find your local PR representative.

INTRODUCTION TO THE CORSAIR MP600 ELITE FOR PS5 GEN4 PCIe x4 NVMe M.2 SSD



The CORSAIR MP600 ELITE PCIe Gen4 x4 NVMe M.2 SSD provides high-performance storage expansion optimized for PS5, boosting your console's storage by up to 2TB.

* Performance and endurance vary by capacity.

Key Features

MP600 ELITE FOR PS5

FEATURE	DESCRIPTION
PS5-compatible M.2 SSD storage expansion	A PCIe Gen4 x4 controller delivers up to 7,000MB/sec sequential read and 6,500MB/sec sequential write speeds*, for phenomenal read, write, and response times.
High-speed PCIe Gen4 Performance	Load games, boot Windows, open and transfer files, all faster than ever.
Expand your console's storage	Using PCIe Gen4 technology for maximum bandwidth, the MP600 ELITE FOR PS5 delivers impressive storage performance.

Gaming Made Faster	Provides the ideal mix of performance and endurance to keep your drive performing at its best for years.
Low-profile aluminum heatsink	Rated for up to 1,200TB Written, the MP600 ELITE FOR PS5's longevity ensures that it reliably stores your data through many years of use.
Compact M.2 2280 Form-Factor	Fits directly into most motherboards and laptops, with no heatsink attached for maximum compatibility.
High-Density 3D TLC NAND	Enables the MP600 ELITE FOR PS5 to communicate directly with your graphics card when playing compatible games, for unbelievably fast load times.
Comprehensive Five-Year Warranty	Support for PCIe Gen3 systems.

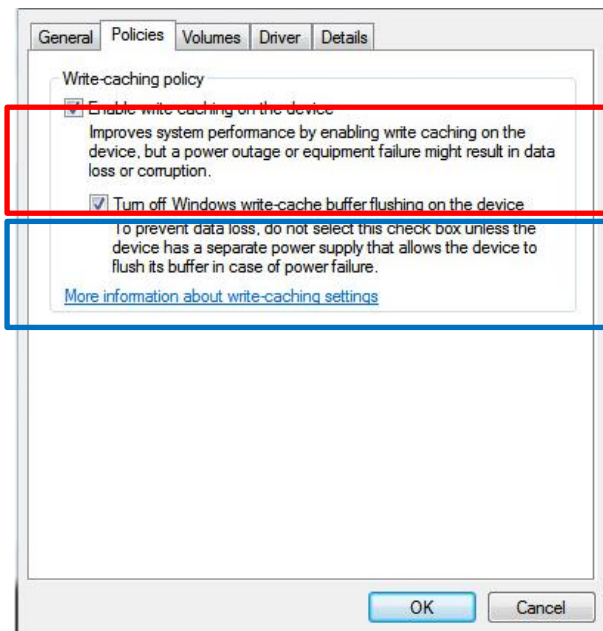
**Performance and endurance vary by capacity.*

***Reduced performance on PCIe Gen3.*

Enabling Disk Write Caching in Windows

Caching is an important aspect of the Windows operating system, using fast volatile memory like RAM to accumulate write commands and then send it to data storage devices. It then caches until the hard disk, a slow memory device, can write them. Make sure to enable it before proceeding with testing benchmarks. Please refer to these steps applying to all Windows versions.

1. Go to Device Manager.
2. Under Disk Drives with MP600 ELITE FOR PS5, select the drive, right click and go to Properties.
3. Go to the Policy tab to Enable Disk Write Caching on the device, and check the option as shown in the screenshot (Red Box).
4. By disabling Disk Write Caching on the device, check the option as shown in the screenshot (Blue Box).



MP600 ELITE FOR PS5 (Front)



Technical Specifications

CAPACITY	1000GB	2000GB
Part Number	CSSD-F1000GBMP600ECS	CSSD-F2000GBMP600ECS
Form Factor	M.2 2280	M.2 2280
Interface	NVMe PCIe Gen4 x4	NVMe PCIe Gen4 x4
Controller	Phison PS5027-E27T	Phison PS5027-E27T
NAND	3D TLC	3D TLC
DRAM Cache Size	- (HMB)	- (HMB)
NAND Cache Size	Dynamic SLC	Dynamic SLC
Encryption	AES 256-bit	AES 256-bit
Trim Support	Supported	Supported
S.M.A.R.T Support	Supported	Supported
Garbage Collection	Supported	Supported
TBW Rating	600	1200
MTBF	1,500,000hrs	1,500,000hrs
Dev Slp power	< 5mW	< 5mW
Average Active Read	5.6W	5.7W
Average Active Write	5.4W	5.7W
Operating Temperature	0° C~70° C	0° C~70° C
Storage Temperature	-40° C~85° C	-40° C~85° C
Operating Humidity	90% RH (40° C)	90% RH (40° C)
Storage Humidity	93% RH (40° C)	93% RH (40° C)
Shock	1500 G	1500 G
Vibration	20Hz-80Hz/1.52mm, 80Hz-2000Hz/20G	20Hz-80Hz/1.52mm, 80Hz-2000Hz/20G
Dimensions	24mm x 80mm x 9mm	24mm x 80mm x 9mm
Sequential Read (CDM) (2) (4)	Up to 7000MB/s	Up to 7000MB/s
Sequential Write (CDM) (2) (4)	Up to 6200MB/s	Up to 6500MB/s
4KB Random Read (3) (4)	Up to 1.0M	Up to 1.0M
4KB Random Write (3) (4)	Up to 1.0M	Up to 1.2M

* Sequential performance measurements based on CrystalDiskMark v8.0.4. Random performance measurements based on Iometer, 1GB range, 4K data size, QD=32, 16 worker, 4K aligned. Performance may vary based on SSD's firmware version, system hardware & configuration.

* Thermal throttling will be triggered when the temperature exceeds 81°C Scale decreasing performance



MP600 ELITE FOR PS5

NVMe Gen4x4 PCIe M.2 SSD

* Dynamic SLC caching schema is defined as data being programmed into SLC cache while data is moved into TLC blocks during available cycles and/or garbage collection of the SSD.

*1 GB=1 Billion bytes. Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise).

* Linux is not compatible with this drive.

CORSAIR MP600 ELITE FOR PS5 PCBA Information

SKU	CAPACITY	TYPE	MP TOOL	FIRMWARE VERSION	QTY	TOPOLOGY	PACKAGE	ASYNC / ONFI/ TOGGLE
CSSD-F1000GBMP600ECS	1TB	3D TLC	V5.21	ERFM11.0	2	3D	BGA	Toggle5
CSSD-F2000GBMP600ECS	2TB	3D TLC	V5.21	ERFM11.0	4	3D	BGA	Toggle5

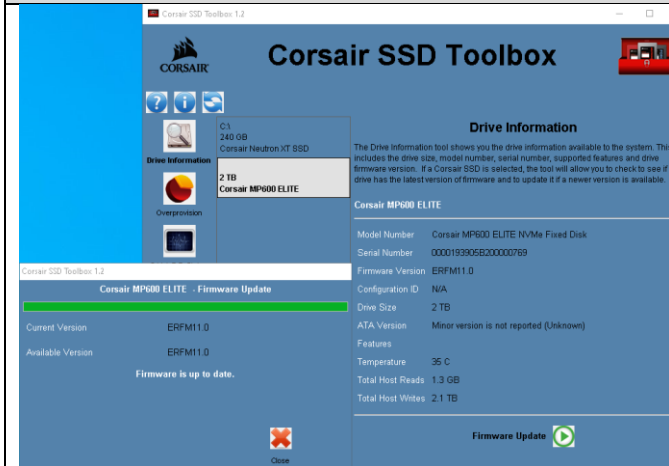
Testing the CORSAIR MP600 ELITE FOR PS5 SSD

The test system was intended to duplicate an average user's system. No tweaking of the OS or overclocking was done to enhance performance. Additional recommended test platform: Sony Play Station 5

TEST BED SPECIFICATIONS		
MOTHERBOARD	HARDWARE REV	MOTHERBOARD BIOS
MSI PRO Z690-A WIFI DDR4		7D25v1A
CPU PROCESSOR	CPU FREQUENCY	OS VERSION
Intel® Core™ i7-12700K	3.6 GHz	Win 10 x64
MEMORY TYPE	MEMORY FREQUENCY	MEMORY CAPACITY
Corsair Vengeance PRO RGB	3000 MHz	16GB

CORSAIR SSD Toolbox

1. DRIVE INFORMATION



Corsair SSD Toolbox

Drive Information

The Drive Information tool shows you the drive information available to the system. This includes the drive size, model number, serial number, supported features and drive firmware version. If a Corsair SSD is selected, the tool will allow you to check to see if the drive has the latest version of firmware and to update it if a newer version is available.

Corsair MP600 ELITE

Model Number: Corsair MP600 ELITE NVMe Fixed Disk
 Serial Number: 0000193056200000769
 Firmware Version: ERFM11.0
 Configuration ID: N/A
 Drive Size: 2 TB
 ATA Version: Minor version is not reported (Unknown)
 Features:
 Temperature: 35 C
 Total Host Reads: 1.3 GB
 Total Host Writes: 2.1 TB

Corsair MP600 ELITE - Firmware Update

Current Version: ERFM11.0
 Available Version: ERFM11.0
 Firmware is up to date.

Firmware Update

2. OVERPROVISION



Corsair SSD Toolbox

Overprovision

The overprovision tool will allow you to allocate a portion of the free space on the SSD to be used by the controller in the SSD. Overprovisioned space allows your SSD controller to help increase both the longevity and performance of your SSD.

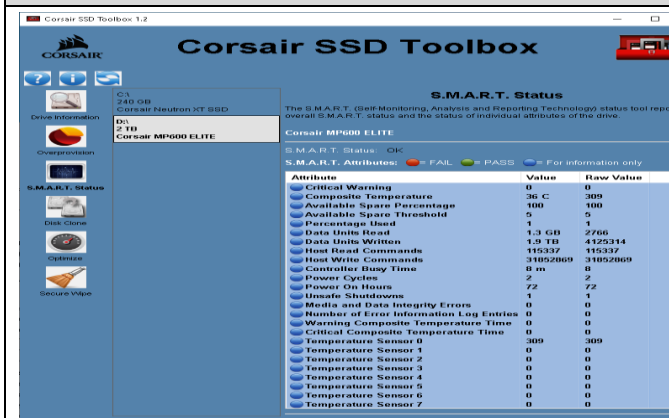
Corsair MP600 ELITE

Overprovisioning is not supported on this NVMe drive.

Volume: D:\ - 2 TB
 Factory Overprovision: Default
 Volume Size: 2 TB
 Available for SW overprovision:
 Recommended SW Overprovision:
 Current SW Overprovision:
 Selected SW Overprovision:
 Free space after SW Overprovision:

Start **Cancel**

3. S.M.A.R.T.



Corsair SSD Toolbox

S.M.A.R.T. Status

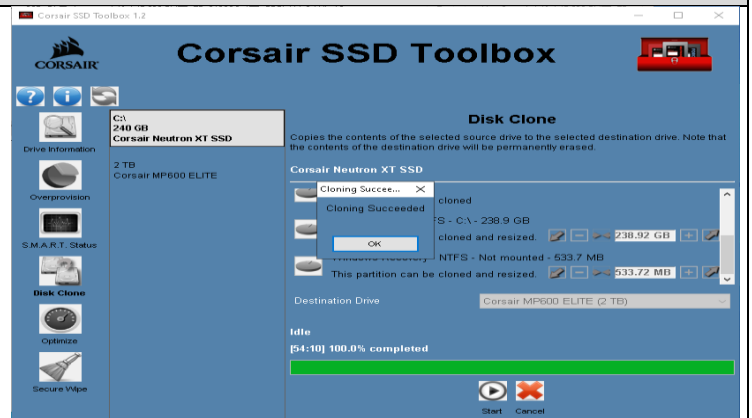
The S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) status tool reports overall S.M.A.R.T. status and the status of individual attributes of the drive.

Corsair MP600 ELITE

S.M.A.R.T. Status: OK
 S.M.A.R.T. Attributes: FAIL PASS For information only

Attribute	Value	Raw Value
Critical Warning	0	0
Composite Temperature	35 C	309
Available Spares Percentage	100	100
Available Spares Threshold	5	5
Percentage Used	1	1
Data Units Read	1.3 GB	2768
Host Read Commands	115332	115337
Host Write Commands	31852869	31852869
Controller Busy Time	8 m	8
Power Cycles	2	2
Power On Hours	72	72
Unsafe Shutdowns	1	1
Media and Data Integrity Errors	0	0
Number of Error Information Log Entries	0	0
Warning Composite Temperature Time	0	0
Critical Composite Temperature Time	0	0
Temperature Sensor 0	309	309
Temperature Sensor 1	0	0
Temperature Sensor 2	0	0
Temperature Sensor 3	0	0
Temperature Sensor 4	0	0
Temperature Sensor 5	0	0
Temperature Sensor 6	0	0
Temperature Sensor 7	0	0

4. CLONE



Corsair SSD Toolbox

Disk Clone

Copies the contents of the selected source drive to the selected destination drive. Note that the contents of the destination drive will be permanently erased.

Corsair Neutron XT SSD

Cloning Succeeded

Cloned: C:\ - 238.9 GB
 Cloned and resized: 238.92 GB
 NTFS - Not mounted - 533.7 MB
 This partition can be cloned and resized: 533.72 MB

Destination Drive: Corsair MP600 ELITE (2 TB)

Idle
 [54:10] 100.0% completed

Start **Cancel**

5. SECURE WIPE



Corsair SSD Toolbox

Secure Wipe

The Secure Wipe tool will allow you to securely delete the entire contents of the drive.

Corsair MP600 ELITE

Wipe Completed

Wipe completed without errors.

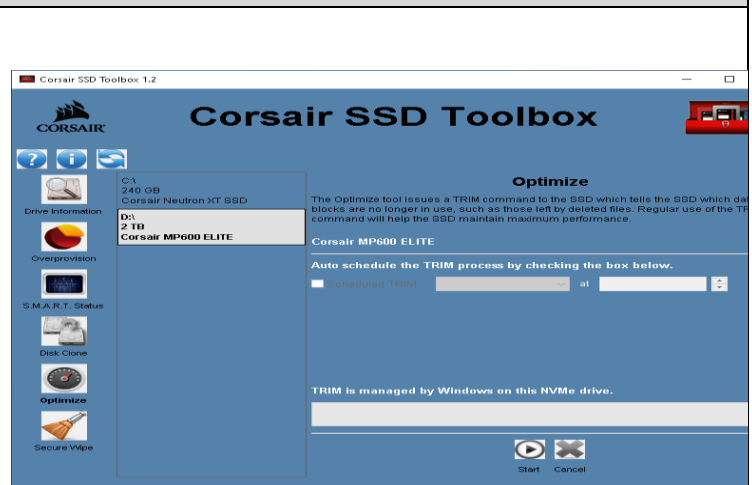
OK

YOUR DRIVE CANNOT BE RECOVERED AFTER THIS PROCESS. MAKE SURE THAT YOU ARE CERTAIN YOU WANT TO DELETE THE DATA ON YOUR DRIVE BEFORE CONTINUING.

Wipe of the selected drive completed.

Start **Cancel**

6. OPTIMIZATION



Corsair SSD Toolbox

Optimize

The Optimize tool issues a TRIM command to the SSD which tells the SSD which data blocks are no longer in use, such as those left by deleted files. Regular use of the TRIM command will help the SSD maintain maximum performance.

Corsair MP600 ELITE

Auto schedule the TRIM process by checking the box below.

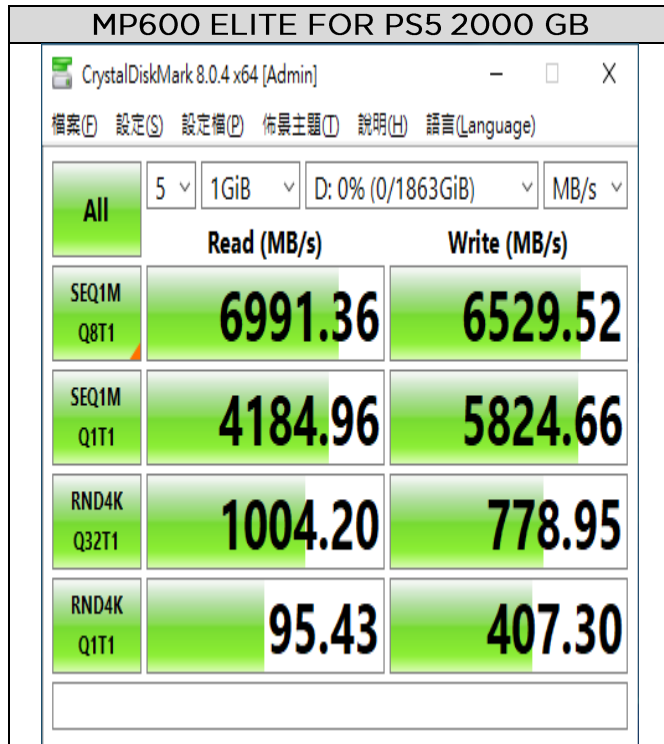
☒ Scheduled TRIM

TRIM is managed by Windows on this NVMe drive.

Start **Cancel**

Internal Performance Metrics for the CORSAIR MP600 ELITE FOR PS5

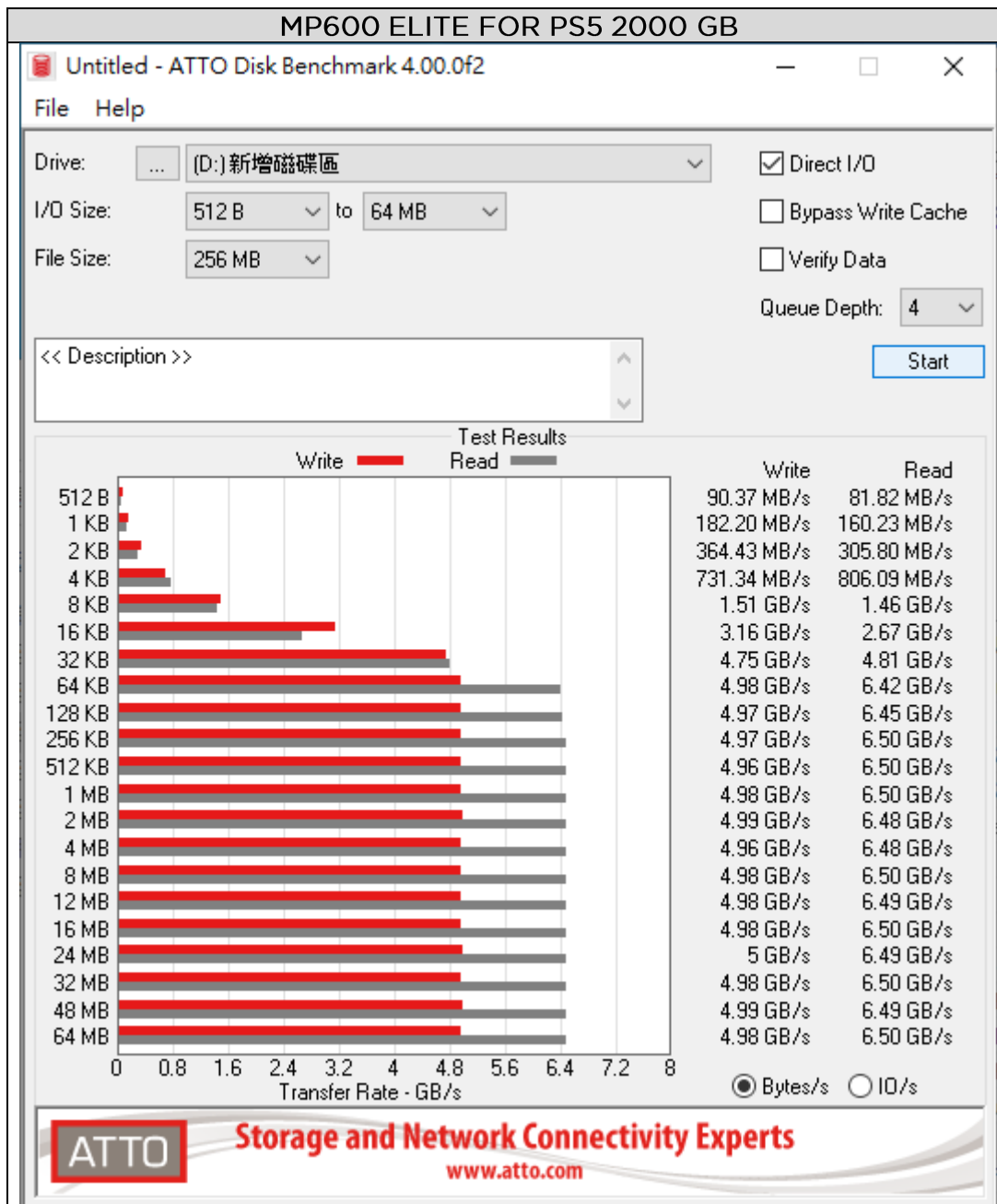
CrystalDiskMark 8.0.4 x64



* Sequential performance measurements based on CrystalDiskMark v8.0.4. Random performance measurements based on Iometer1.1.0. Performance may vary based on SSD's firmware version, system hardware & configuration.

Testing the CORSAIR MP600 ELITE FOR PS5 SSD with ATTO Disk Benchmark

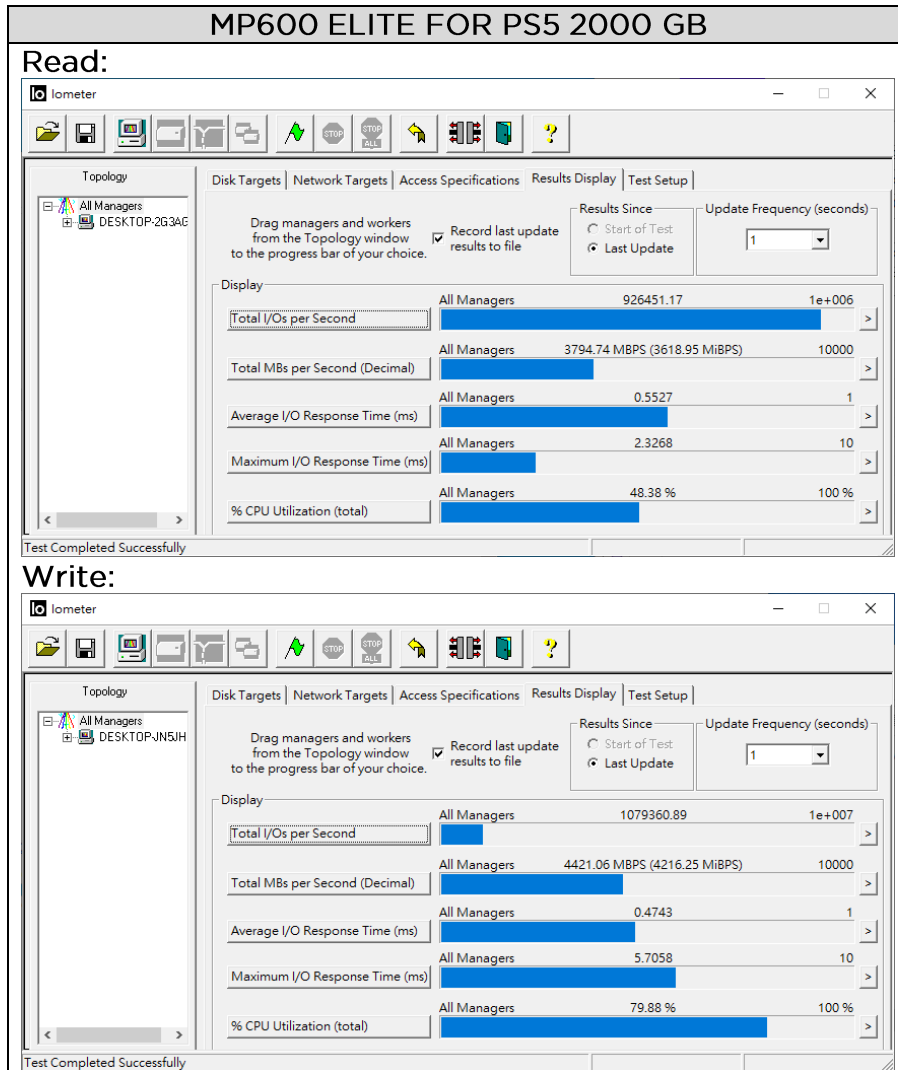
ATTO v.4.00.0f2



* Performance may vary based on SSD's firmware version, system hardware & configuration.

Testing the CORSAIR MP600 ELITE FOR PS5 SSD with IOMETER

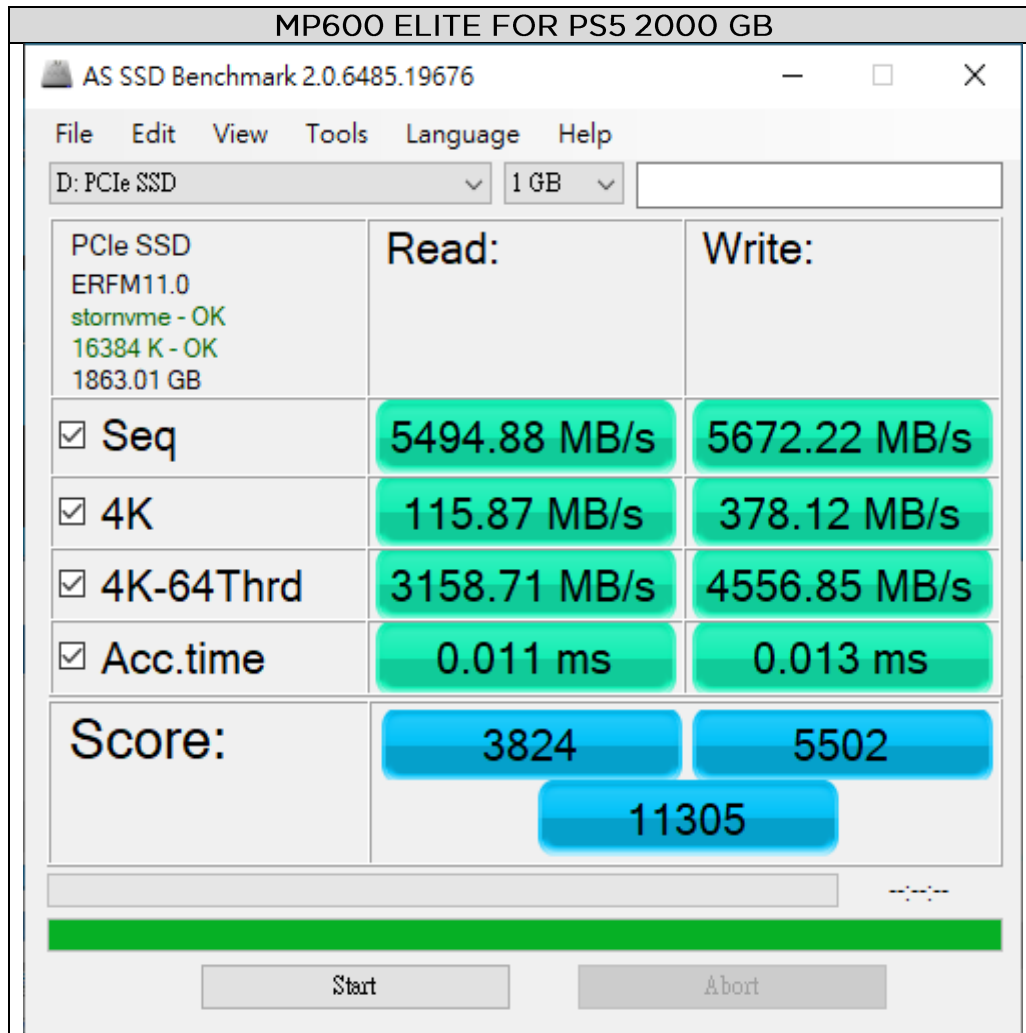
Iometer v1.1.0



* Performance may vary based on SSD's firmware version, system hardware & configuration.

Testing the CORSAIR MP600 ELITE FOR PS5 SSD with AS SSD

AS SSD v.2.0.6485.19676

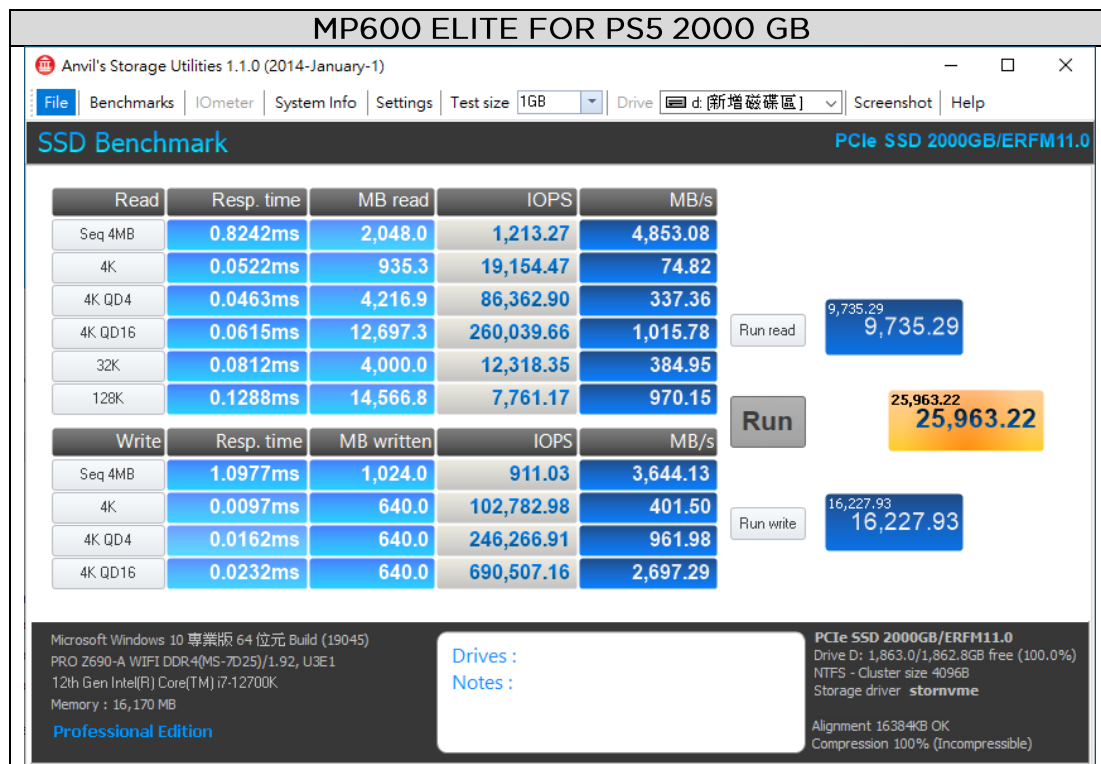


AS SSD Copy-Benchmark 2.0.6485.19676		
File Edit		
PCIe SSD ERFM11.0 stornvme 1863.01 GB	Speed:	Duration:
☒ ISO	2327.14 MB/s	0.46 s
☒ Program	2021.66 MB/s	0.70 s
☒ Game	3599.65 MB/s	0.38 s
Start Abort		

* Performance may vary based on SSD's firmware version, system hardware & configuration.

Testing the CORSAIR MP600 ELITE FOR PS5 SSDs with Anvil Benchmark

Anvil Benchmark v.1.1.0 (2014-January-1)

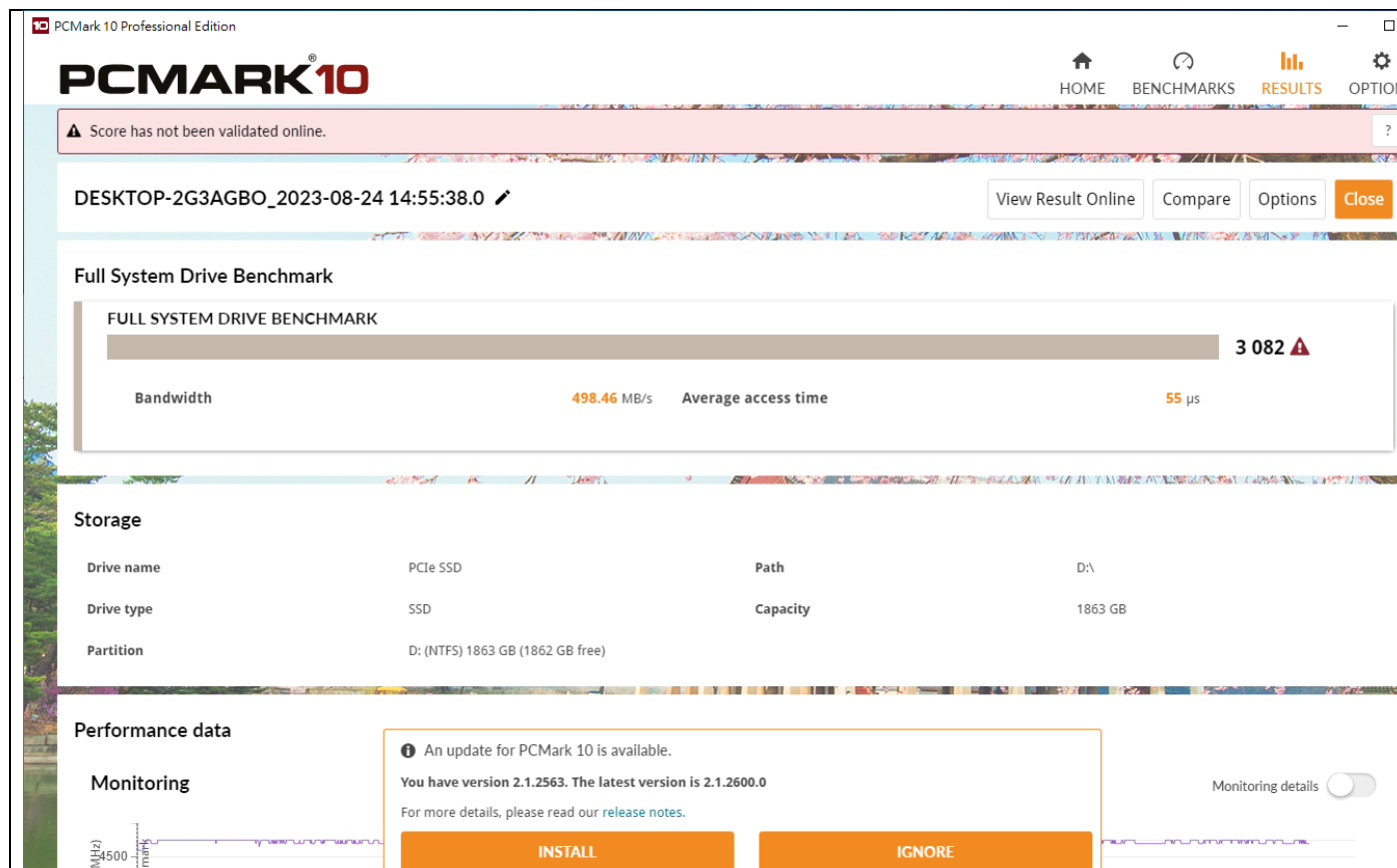


* Performance may vary based on SSD's firmware version, system hardware & configuration.

Testing the CORSAIR MP600 ELITE FOR PS5 SSDs with PCMark10

PCMark10

MP600 ELITE FOR PS5 2000 GB



* Performance may vary based on SSD's firmware version, system hardware & configuration.

PRICING

Part number		MSRP USD	MSRP CAN	MSRP EUR	MSRP GBP	MSRP AUD	MSRP JPY
MP600 ELITE for PS5							
CSSD-F1000GBMP600ECS	1TB	\$94.99	129.99	€ 119.99	£109.99	AUD 159.00	¥15,990.00
CSSD-F2000GBMP600ECS	2TB	\$169.99	229.99	€ 209.99	£189.99	AUD 289.00	¥28,990.00

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