**Key Features**

• Designed for tech enthusiasts, hardcore gamers and heavy-workload professionals who want blazing fast speed.  
  
• Enjoy up to 50% improved performance per watt over 980 PRO, plus optimal power efficiency with max PCIe® 4.0 performance.  
  
• Sequential read/write speeds up to 7,450/6,900 MB/s.

Model

**990 PRO**

$119.99~~$159.99~~

**Save $40.00**

**990 PRO with Heatsink**

$109.99~~$174.99~~

**Save $65.00**

Storage

**4TB**

$319.99~~$464.99~~

**Save $145.00**

**2TB**

$179.99~~$249.99~~

**Save $70.00**

**1TB**

$119.99~~$159.99~~

**Save $40.00**

**VIP Advantage**

**VIP Advantage membershipLearn more**

* 2 Year Samsung Care+ (without Theft and Loss)
* Exclusive Discounts & Early Access

To select this option, please sign in or create a Samsung account

**Premium Benefits**

**$149.99/yr**

**Delivery & professional services**

Availability for:

96928

Delivery

**Delivery**

Not available



**In-Store Pickup**

Not available

This product is currently not available in your area.

**Choose your purchase option**

iconQuestions? Ask a Financing Expert

**One-time Payment**

**$119.99**

**Samsung Financing**(Pay Monthly)

**$10.00/mo**

for**12 mos ⊕σ**

**Pay in 4 Installments**

**$30.00**

**every two weeks σπ**

**One-time payment**

Pay with your credit card, debit card or a pay app. Excludes taxes and shipping.

**990 PRO PCIe® 4.0 NVMe® SSD 1TB$119.99**

**Total**

**$119.99~~$159.99~~**

**You Saved Today$40.00**



**Log in now to earn up to 1.5% back in Samsung Rewards Points**

**Add to cart**

[**Where to buy**](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie--4-0-nvme--ssd-1tb-mz-v9p1t0b-am-buy)

Supported payment types:

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**Meet the next gen**

Consider this a cheat code. Our Samsung 990 PRO Gen4 SSD helps you reach near max performance² with lightning-fast speeds. Whether you’re a hardcore gamer or a tech guru, you’ll get power efficiency built for the final boss.

*²PCIe 4.0’s best theoretical sequential read is 8000 MB/s - 990 PRO reaches 7450 MB/s as of Q3, 2022.*

**Reach the next level**

Gen4 M.2 Internal Solid State Drive

Got a need for speed? Gen4 steps up to the arena with faster transfer speeds and high-performance bandwidth. With a more than 55% improvement in random performance compared to 980 PRO, it’s fully here for heavy computing and faster loading.

**The fastest SSD from the world's #1 flash memory brand¹**

Read/Write Speeds up to 7,450/6,900 MB/s

The speed you need for any occasion. And with read and write speeds up to 7450/6900 MB/s,² you’ll reach near max performance of PCIe® 4.0³ powering through for any use. Our fastest data-transfer speeds dare to zoom past the finish line for the ultimate experience.

*¹ 2003–2022 OMDIA data: NAND suppliers' revenue market share.  
² PCIe 4.0’s best theoretical sequential read is 8000 MB/s - 990 PRO reaches 7450 MB/s as of Q3, 2022.  
³ Sequential and random write performance was measured with Intelligent Turbo Write technology being activated. Intelligent Turbo Write operates only within a specific data transfer size. Performance may vary depending on SSD’s firmware, system hardware & configuration and other factors. For detailed information, please contact your local service center. 990 PRO reaches 7,450 MB/s based on test system configuration: AMD Ryzen 7 5800X 8-Core Processor CPU@3.80GHz, DDR4 3600MHz 16GBx2 (PC4-25600 Overclock), OS - Windows 10 Pro 64bit, Chipset - ASRock-X570 Taichi. To maximize the performance of the 990 PRO, please check whether your system supports PCIe 4.0 at the Intel or AMD website.*

**Play without limits**

Storage Capacities from 1TB to 4TB

Give yourself some space with storage capacities from 1TB to 4TB. Sync all your saves and reign supreme in gaming, video editing, data analysis and more.

**It's a power move**

Power Efficiency

Save the power for your performance. Get power efficiency all while experiencing up to 50% improved performance per watt over the 980 PRO⁴.It makes every move more effective with less consumption.

*⁴ 980 PRO Sequential Read/Write - 1,129/877 MB/Watt, 990 PRO Sequential Read/Write - 1380/1319 MB/Watt based on test result of 1TB capacity model.*

**Nickel Coated Controller with Smart Thermal Control**

Keep your cool

Now you can ramp things up without overheating the system. Samsung’s nickel-coated, high-end controller delivers effective thermal control to avoid performance drops mid-project and make sure your checkpoints are saved.

**Unlock the full potential of 990 PRO**

Samsung Magician Software

Get the most out of your SSD with Samsung Magician's advanced yet intuitive optimization tools. Monitor drive health, protect valuable data, receive important updates and set up LED color combinations for your 990 PRO with Heatsink. It's your personal SSD toolkit.

**Unlock the power of Samsung SSDs in a few easy steps**

Follow these simple instructions to install your SSD.

**World's No. 1 Flash Memory Brand**

Experience the performance and reliability that you can only get from the world's number one brand for flash memory since 2003.\* All firmware and components, including Samsung's world-renowned DRAM and NAND, are produced in-house, allowing end-to-end integration for quality you can trust.

*\*Source: 2003-2023 OMDIA data: NAND suppliers' revenue market share.*

**The industry has spoken**

See the accolades that have solidified our place as the leader in Memory & Storage

"Easily the fastest Gen 4 Solid State Drive on the market right now."

"All around champion at this point in time."

See All Specs

**Reviews**

Rating Snapshot

Select a row below to filter reviews.

5 starsstars

478

478 reviews with 5 stars.

4 starsstars

28

28 reviews with 4 stars.

3 starsstars

3

3 reviews with 3 stars.

2 starsstars

5

5 reviews with 2 stars.

1 starstars

14

14 reviews with 1 star.

Overall Rating

4.8

528 Reviews

334 out of 350 (95%) reviewers recommend this product

Review this Product

Select to rate the item with 1 star. This action will open submission form.

Select to rate the item with 2 stars. This action will open submission form.

Select to rate the item with 3 stars. This action will open submission form.

Select to rate the item with 4 stars. This action will open submission form.

Select to rate the item with 5 stars. This action will open submission form.

Adding a review will require a valid email for verification

Average Customer Ratings

Features

Features, 4.8 out of 5

4.8

Performance

Performance, 4.8 out of 5

4.8

Design

Design, 4.8 out of 5

4.8

Value

Value, 4.6 out of 5

4.6

Filter Reviews

Search topics and reviews search region

Rating

1 to 8 of 528 Reviews

1 – 8 of 528 Reviews

Sort by

Most Helpful

5 out of 5 stars.

**Best SSD on the market!**

Danny

* Incentivized Review

a year ago

I bought this as a component for my first gaming pc build and I'm so glad I did because its performance is amazing compared to my old pc, plus a get lots of storage. Highly recommend!

Originally posted on [990 PRO PCIe® 4.0 NVMe® SSD 2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/)

Helpful?

(7)

(1)

Report

Features

Features, 5.0 out of 5

5.0

Performance

Performance, 5.0 out of 5

5.0

Design

Design, 5.0 out of 5

5.0

Value

Value, 5.0 out of 5

5.0

2 out of 5 stars.

**Hardware encryption does NOT work with Bitlocker**

disappointed purchaser

a year ago

The entire reason I bought this was for it' s opal/edrive hardware encryption to use with Windows 10 pro Bitlocker. Unlike my other 960pro and 980pro drives, the 990pro drive will not allow hardware encryption. This issue is one that is widely shared on many forums as of April 2023. My drive was purchased from Samsung.com and arrived with the latest Feb . 2023 firmware. Issue of not being compatible has been verified when trying to use the 990pro as either an OS boot drive or a secondary drive. Again, I understand how to configure Windows 10 to make this happen for both my 960pro and my 980pro so the issue is clearly the 990pro which will not support hardware encryption with bitlocker even though it is advertised as an opal 2/0 / edrive.

Helpful?

(19)

(3)

Report

Features

Features, 2.0 out of 5

2.0

Performance

Performance, 4.0 out of 5

4.0

Design

Design, 4.0 out of 5

4.0

Value

Value, 2.0 out of 5

2.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

disappointed purchaser: We always aim to deliver a great experience, and it’s unfortunate to hear the 990 PRO SSD did not meet your expectations. A new firmware update has been released to address issues with Bitlocker. You can find it here: https://semiconductor.samsung.com/consumer-storage/support/tools/ Go to “Firmware” in the menu bar, then you can find the latest firmware ISO File. Should you need further assistance, please contact Samsung Customer Support. You can reach us at: 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) Or visit us on the Samsung website and click on the SUPPORT link in the upper right corner of the homepage for: 1. Chat with Us/Product Help: To begin a chat or find solutions, choose ‘Computing – Memory & Storage’ and select your model & topic. Thank you for choosing Samsung. - Samsung Memory

1 out of 5 stars.

**Loosing life too fast.**

DonS

a year ago

I have purchased this SSD in November 2022. It is now May 2023 and Windows 11 is reporting that there is 59% of estimated life remaining. The 59% left is way too fast for the money I paid.

No, I do not recommend this product.

Helpful?

(17)

(3)

Report

Features

Features, 5.0 out of 5

5.0

Performance

Performance, 1.0 out of 5

1.0

Design

Design, 5.0 out of 5

5.0

Value

Value, 2.0 out of 5

2.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

DonS: I’m sorry to hear that your Samsung 990 PRO SSD did not meet your expectations. This is not the quality we expect from our products. Samsung has looked into certain customer inquiries about abnormalities pertaining to the 990 PRO SSD’s S.M.A.R.T. It has been determined that these abnormalities were caused by issues with the 990 PRO SSD's firmware. Accordingly, a firmware update capable of resolving these abnormalities has been released. Please go to the below link to download the update: https://semiconductor.samsung.com/consumer-storage/support/tools/ If you need further assistance, please reach out to us at Samsung Memory Support: 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) Or visit us on the Samsung website and click on the SUPPORT link in the upper right corner of the homepage for: 1. Chat with Us/Product Help: To begin a chat or find solutions, choose ‘Computing – Memory & Storage’ and select your model & topic. Samsung is committed to providing the best possible product experience, quality, and value, and we are always here to help with any of your questions or concerns. - Samsung Memory

2 out of 5 stars.

**Fast drive, Hardware Encryption Doesn't Work**

SamSam

a year ago

Drive is fast but one of the main reasons I bought this is for the Hardware Bitlocker support which after doing everything the instructed to do, it won't work (yes I booted to the Samsung USB to do a Secure Wipe, and yes I enabled Hardware Encryption in the Magician Tool, and yes I did a clean install of Windows 11 Pro, and yes I have a modern motherboard Asus X570+ with the latest BIOS which has the latest TPM support for hardware encryption to work).

Originally posted on [990 PRO PCIe® 4.0 NVMe® SSD 2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/)

Helpful?

(11)

(2)

Report

Features

Features, 2.0 out of 5

2.0

Performance

Performance, 5.0 out of 5

5.0

Design

Design, 3.0 out of 5

3.0

Value

Value, 3.0 out of 5

3.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

SamSam: We always aim to deliver a great experience, and it’s unfortunate to hear the 990 PRO SSD did not meet your expectations. A new firmware update has been released to address issues with Bitlocker. You can find it here: https://semiconductor.samsung.com/consumer-storage/support/tools/ Go to “Firmware” in the menu bar, then you can find the latest firmware ISO File. Should you need further assistance, please contact Samsung Customer Support. You can reach us at: 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) Or visit us on the Samsung website and click on the SUPPORT link in the upper right corner of the homepage for: 1. Chat with Us/Product Help: To begin a chat or find solutions, choose ‘Computing – Memory & Storage’ and select your model & topic. Thank you for choosing Samsung. - Samsung Memory

5 out of 5 stars.

**Samsung SSD's are always good.**

Frank

* Incentivized Review

11 months ago

The Samsung SSD's have always been excellent. They are the one I can always count on.

Yes, I recommend this product.

Originally posted on [990 PRO PCIe ® 4.0 NVMe ® SSD 4TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-4tb-mz-v9p4t0b-am/)

Helpful?

(5)

(1)

Report

Features

Features, 5.0 out of 5

5.0

Performance

Performance, 5.0 out of 5

5.0

Design

Design, 5.0 out of 5

5.0

Value

Value, 5.0 out of 5

5.0

1 out of 5 stars.

**Nothing but issues since getting this SSD**

Unhappy Customer

a year ago

Got this SSD new from Samsung as a replacement for a 980 PRO that failed only 18 months after purchase. Since then I've continued to have constant issues with the computer freezing and requiring a reboot on a daily basis (sometimes multiple times) which happens both while the computer is in use and while it's idle. None of this was an issue before the drive replacement (other than when the computer completely died when the original failed). I guess the computer booting back up after a hard reboot, unlike the original drive, is a silver lining; but I would much rather the computer be stable again.

No, I do not recommend this product.

Originally posted on [990 PRO PCIe® 4.0 NVMe® SSD 2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/)

Helpful?

(5)

(1)

Report

Features

Features, 4.0 out of 5

4.0

Performance

Performance, 1.0 out of 5

1.0

Design

Design, 4.0 out of 5

4.0

Value

Value, 1.0 out of 5

1.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

Unhappy Customer: I’m sorry to hear that your experience did not match your expectations. This is not the quality we expect from our products. Samsung stands behind the quality and performance of every 990 PRO SSD we manufacture with a limited 5-year manufacturer’s warranty when purchased brand-new, directly from any authorized dealer. Please contact Samsung Customer Support directly so that we can better investigate your issue and assist you towards a resolution or replacement. You can reach us at: 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) Or visit us on the Samsung website and click on the SUPPORT link in the upper right corner of the homepage for: 1. Chat with Us/Product Help: To begin a chat or find solutions, choose ‘Computing – Memory & Storage’ and select your model & topic. We hope you’ll give us a chance so we can provide you with the excellent experience we strive for. We look forward to hearing from you soon. - Samsung Memory

1 out of 5 stars.

**Rapidly declining health; better options available**

2020JLUR

a year ago

Purchased 2 1TB SSDs and installed in new systems in December 2022. Health of the SSDs on February 14, 2023 are 89% and 92%. Firmware update was recently released (not sure if it even works), but the rapid health decline is UNACCEPTABLE. I would avoid Samsung SSDs. Better and more affordable options are available like the SK Hynix Platinum P41.

No, I do not recommend this product.

Helpful?

(24)

(5)

Report

Features

Features, 1.0 out of 5

1.0

Performance

Performance, 1.0 out of 5

1.0

Design

Design, 1.0 out of 5

1.0

Value

Value, 1.0 out of 5

1.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

2020JLUR: I’m sorry to hear of the issues you had with your 990 PRO and we understand your frustrations. Please know that Samsung is committed to providing the best possible product experience, quality, and value, and your feedback will be shared with our product and customer care teams. If there’s anything we can do to further improve your experience, please let us know by calling Samsung Support at 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) . ~ Samsung Memory

1 out of 5 stars.

**Didn't even last a month until I see huge drops**

AyushT

a year ago

Bought this SSD from Amazon over a month ago. Was doing great when I first bought it but now the Sequential Write speed has gone from 6500Mb/s to 500Mb/s. The read speed seems unaffected but the write speed drop is ridiculous. I cant even return it on amazon anymore. Very disappointed.

No, I do not recommend this product.

Helpful?

(8)

(2)

Report

Features

Features, 4.0 out of 5

4.0

Performance

Performance, 2.0 out of 5

2.0

Design

Design, 4.0 out of 5

4.0

Value

Value, 1.0 out of 5

1.0

Response from SAMSUNG:

a year ago

**Samsung Brand Ambassador**

AyushT: We always aim to deliver a great experience, and it’s unfortunate to hear the 990 PRO SSD did not meet your expectations. Samsung stands behind the quality and performance of every 990 PRO SSD we manufacture with a limited 5-year manufacturer’s warranty when purchased brand-new, directly from any authorized dealer. Please contact Samsung Customer Support directly so that we can better investigate your issue and assist you towards a resolution or replacement. You can reach us at: 1-800-SAMSUNG (ask for Memory or press #, then 6 for Memory products) Available 9AM – 9PM EST (Mon-Fri) Or visit us on the Samsung website and click on the SUPPORT link in the upper right corner of the homepage for: 1. Chat with Us/Product Help: To begin a chat or find solutions, choose ‘Computing – Memory & Storage’ and select your model & topic. We hope to hear from you soon. - Samsung Memory

1 – 8 of 528 Reviews

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* [Next Reviews](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie--4-0-nvme--ssd-1tb-mz-v9p1t0b-am/?bvstate=pg:2/ct:r)

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