

Samsung 950 PRO (MZ-V5P256BW)

256GB, M.2, PCIe 3.0 x4 (up to 32 GB/s) NVMe 1.1, V-NAND, AES 256-bit



Price details:

Price excl. VAT: 173.16 €

Eco fees: 0.00 €

VAT 21 %: 36.36 €

Product details:

Product code: MZ-V5P256BW

EAN: 8806086777513

Manufacturer: Samsung

PDF generated on: 4 August, 2016



209.52 €

* VAT included

Level up to unmatched performance, power efficiency and endurance

If you're a heavy workload professional searching for an SSD with uncompromising power and performance, look no further. The next-generation Samsung 950 PRO delivers exceptional performance for professionals. This cutting-edge V-NAND-based NVMe SSD supports PCI Express® Gen 3 x4 lanes, providing a higher bandwidth and lower latency to process a massive amount more data than SATA SSDs. Presented in a compact M.2 form factor, the future-oriented 950 PRO is ideal for professionals using high-end PCs and workstations.

* PCI Express and PCIe are registered trademarks of PCI-SIG.

Experience a next-generation SSD today

Equipped with the enhanced bandwidth of the NVMe interface, the 950 PRO is ideal for intensive workloads, such as computer-aided design, data analysis and engineering simulations. It outperforms SATA SSDs by over 4.5 times in sequential read and by over 2.5 times in sequential write, delivering the speeds of 2,500 MB/s and 1,500 MB/s respectively.*

* This reflects the maximum performance of 950 PRO 512 GB compared to 850 PRO 512 GB.

Results may vary based on the user environment.

Save power while maintaining peak performance

If you're in the midst of performing a complex data analysis or engineering simulation on your laptop, you surely don't want to run out your battery. Compared to SATA SSD power consumption, the 950 PRO is up to 1.5 times* more power efficient, so your battery will last longer and maintain superior performance levels.

* Based on internal 10GB file power consumption tests using a 512GB capacity 850 PRO and 950 PRO. Results may vary based on the user environment.

Maximize endurance under heavy workloads

The innovative V-NAND technology in the 950 PRO increases endurance and prolongs the lifespan with insulators that cause less stress and are more resistant to wear under heavy client workloads over a 5-year period.* The 950 PRO also features Dynamic Thermal Throttling Protection technology, which controls the temperature of the device to reduce overheating and maintain a high level of sustained performance.

* 5 years or TBW (256GB: 200 TB, 512GB: 400 TB), whichever comes faster.

Main specifications:

Performance

Solid-state drive capacity:	256 GB
Solid-state drive interface:	M.2
Read speed:	2200 MB/s
Write speed:	900 MB/s
Drive device, buffer size:	512 MB

PCI Express interface data lanes:	x4
Data transfer rate:	32 Gbit/s
Random read (4KB):	270000 IOPS
Random write (4KB):	85000 IOPS
Security algorithms:	256-bit AES
S.M.A.R.T. support:	Y
TRIM support:	Y
Sequential writing:	Y
Mean time between failures (MTBF):	1500000 h
TBW rating:	200

Design

Internal:	Y
Colour of product:	Black

Power

Power consumption (sleep):	0.0025 W
Power consumption (read):	5.1 W
Power consumption (write):	5.1 W
Power consumption (idle):	0.07 W

Operational conditions

Operating temperature (T-T):	0 - 70 °C
Operating relative humidity (H-H):	5 - 95 %
Operating shock:	1500 G
Operating vibration:	20 G

Technical details

Form factor:	M.2
--------------	-----

Weight & dimensions

Width:	80.15 mm
Depth:	22.15 mm
Height:	2.38 mm
Weight:	10 g