

System Requirement for NVMe SSDs

The NVMe protocol is newly designed specifically for solid state drives and replaces older SATA protocols which were optimized for hard disk drives. The new NVMe protocol has an interface and form-factor vastly different from prior storage solutions.



Fundamental changes in how storage connects to the PC system brings certain hardware and software requirements. Users are advised of the following requirements to ensure compatibility and to gain the full benefits of the revolutionary NVMe storage technology.

Hardware requirements

Please refer to the product documentation published by the manufacturer of your system or components to verify that a Samsung NVMe SSD is compatible with your build.

Category	Minimum Requirement
Mainboard (System)	Intel Haswell Refresh or later client chipset based main board with free (unallocated) PCIe Gen. 3 x 4 lanes
Processor	64-bit processor (recommended) single, dual or higher number of processors can be used
Memory	More than 2 GB DRAM
Connector	Requires M.2 ('M' Key) or use third party adapter (AIC) to connect to PCIe connector
Form-Factor	Space for a single sided M.2 2280 (SSD with dimensions 22 mm x 80 mm) or use third party adapter (AIC) to connect to PCIe connector
Power	25 W compatible PCIe slot

Software requirements

The following operating systems are supported, so long as equipped with required or recommended driver as indicated below:

OS	Notes
Windows 7 32/64bit	Samsung NVMe driver required
Windows 8 32/64bit	Samsung NVMe driver required
Windows 8.1 32/64bit	Samsung NVMe driver recommended*
Windows 10 32/64bit	Samsung NVMe driver recommended*

* The Samsung NVMe driver ensures maximum compatibility between host and Samsung NVMe SSDs and optimizes system performance.

Samsung NVMe SSD Lineup

Samsung accelerated the NVMe era in 2015 with the launch of the 950 PRO and continues to accelerate the innovation to address the evolving PC environment across laptops and desktops. These hardware options have fully matured for NVMe adoption with chipset, operating system, as well as motherboard support for PCI Express (PCIe) Gen. 3 x 4 lanes in an M.2 slot. Samsung is expanding the NVMe SSD market with the development of the 4th-generation V-NAND and two tier lineup.



960 PRO

Designed for tech enthusiasts and professionals seeking unprecedented workstation and PC performance for CAD engineering or data simulations.



960 EVO

The smart choice for entry-level NVMe SSD users who want to discover next-generation PC performance for gaming and graphics.

For more information

For more information about the Samsung NVMe SSD, visit www.samsungssd.com.

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