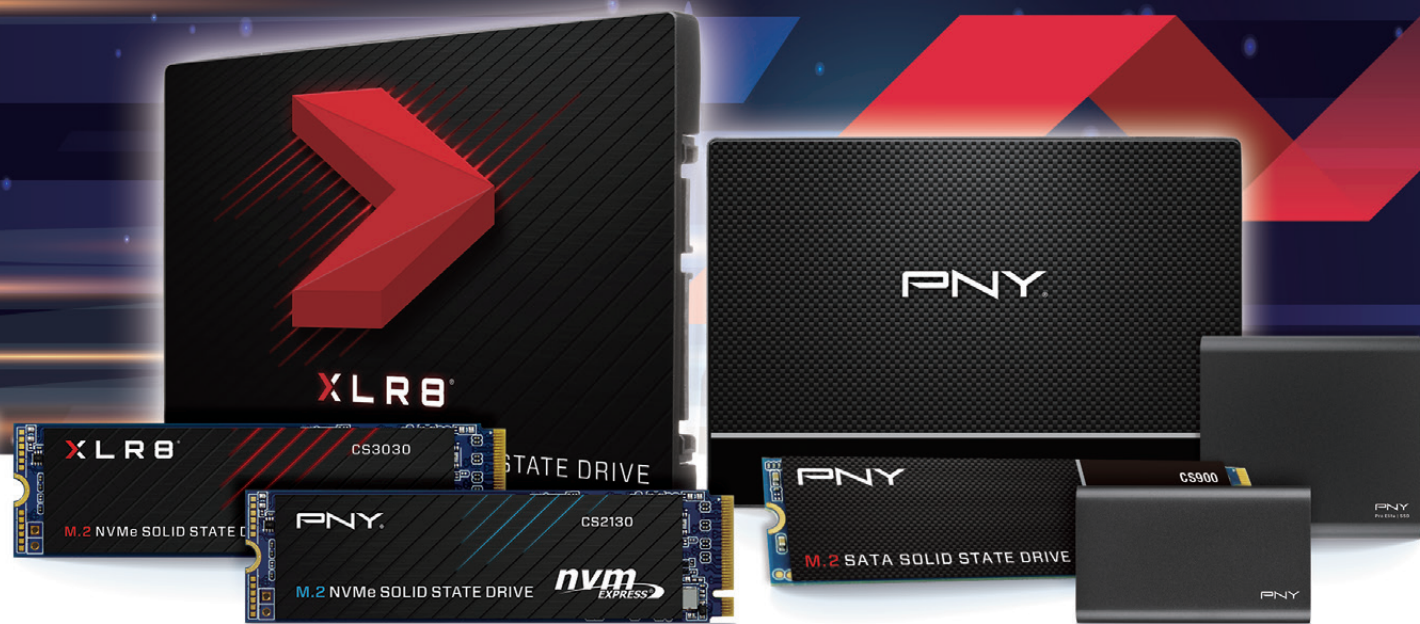


PNY SOLID STATE DRIVES

2.5-INCH | M.2 | PORTABLE



SSD Type & Form Factor

Internal SSD

M.2



▲ Socket for "B key"



▲ Socket for "M key"

2.5-inch



▲ Socket for 2.5-inch SSD

External SSD



type A

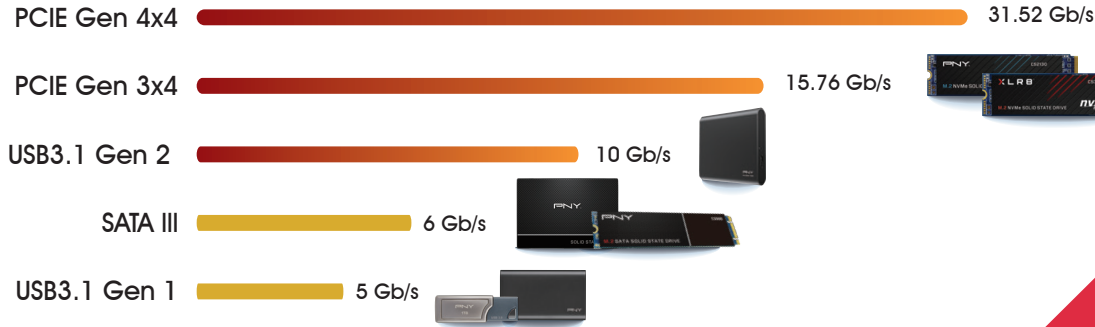


type C

▲ connect through
USB Type-A or Type-C cables

PNY provide various of interface solution, from USB 3.1 to PCIe, transfer speed up to 31.52 Gb/s

Interface & Speed



DRAM cache

Acts like a temporary storage for SSDs, the major purpose of DRAM cache is to speed up SSDs read/write operations without having delays by the latency of NAND flash.



Why some SSD are dramless?

Host Memory Buffer

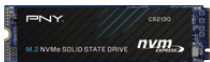
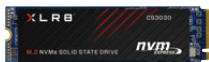
Only available on NVMe SSDs, it lets Windows operating system uses a section of the PC's DRAM for SSD's read/write operations, speeding up the SSD.

Instead of adding an actual DRAM into SSDs, there are 2 methods to

SLC cache

SLC cache uses the SSD's space to create a section. This section only consist single bit cells which have lower latency.





XLR8 CS3030

CS2130

XLR8 CS2311

CS900

| | | | | |
|--------------------|---|---|--|--|
| Capacity | 250GB/ 500GB/ 1TB/ 2TB | 500GB/ 1TB/ 2TB | 250GB/ 500GB/ 1TB/ 2TB | 120GB/ 240GB/ 480GB/ 960GB |
| Interface | NVMe Gen3x4 | NVMe Gen3x4 | SATA III (6Gb/s) (Backward compatible with SATA II) | SATA III (6Gb/s) (Backward compatible with SATA II) |
| Form Factor | M.2 2280 | M.2 2280 | 2.5-inch | M.2/ 2.5-inch |
| Application | Accelerate your gaming experience | Superior performance | Enhance Reliability | Boost PC performance |
| Sequential Read | Up to 3,500MB/s | Up to 3,500MB/s | Up to 560MB/s | 120GB up to 515 MB/s 240GB up to 535 MB/s 480GB up to 550 MB/s 960GB up to 535 MB/s |
| Sequential Write | 250GB up to 1,050MB/s 500GB up to 2,000MB/s 1TB-2TB up to 3,000MB/s | 500GB up to 925MB/s 1TB up to 1,800MB/s 2TB up to 3,000MB/s | Up to 530MB/s | 120GB up to 490 MB/s 240GB up to 500 MB/s 480GB up to 500 MB/s 960GB up to 515 MB/s |
| Cache | DRAM | DRAM | DRAM | SLC |
| Reliability (MTBF) | 2 Million Hours | 2 Million Hours | 2 Million Hours | 2 Million Hours |
| Warranty | 5-Year Limited Warranty | 5-Year Limited Warranty | 5-Year Limited Warranty | 3-Year Limited Warranty |

Please note: 1 megabyte = 1 million bytes; 1 gigabyte = 1 billion bytes. Actual usable capacity may vary. Some of the listed capacity is used for formatting and other functions, and thus is not available for data storage. Sequential read and write data transfer rates based on PNY internal testing; performance may vary depending upon drive capacity, host device, OS and application.



• • • • •
• • • • •

The Next Generation in Mobile Storage



High Speed Transfer



Sleek and Ultra-Compact



Expanded Connectivity



CS900 2.5-inch Internal SSD

550MB/s

45g

SATA



Pro Elite External SSD

900MB/s

45.35g

USB-C

WIN

COMPARISON

Transfer
speed (up to)

Weight

Connectors



Elite External SSD

430MB/s

24g

USB-A



Pro Elite USB Flash Drive

400MB/s

21.2g

USB-A



Pro Elite



Elite

| | | |
|-------------------|---|---|
| Capacity | 250GB/ 500GB/ 1TB | 240GB/ 480GB/ 960GB |
| Interface | USB 3.1 Gen 2 (10Gb/s) | USB 3.1 Gen 1 (5Gb/s) |
| Form Factor | Portable external SSD | Portable external SSD |
| Dimension | 63.5 mm x 57.2 mm x 10.9 mm | 60 mm x 36 mm x 9 mm |
| Weight | 45.35g | 24g |
| Application | Gaming & Media | Everyday use |
| Sequential Read | 250GB up to 880MB/s 500GB up to 865MB/s 1TB up to 890MB/s | Up to 430MB/s |
| Sequential Write | 250GB up to 900MB/s 500GB up to 875MB/s 1TB-2TB up to 880MB/s | Up to 420MB/s |
| Software included | Acronis True Image Data Protection Software | Acronis True Image Data Protection Software |
| Cables included | USB-C 3.1 to USB-C 3.1 Cable, USB-C 3.1 to USB-A 3.1 Cable | Micro B to USB-A cable |
| Warranty | 3-Year Limited Warranty | 3-Year Limited Warranty |

Please note: 1 megabyte = 1 million bytes; 1 gigabyte = 1 billion bytes. Actual usable capacity may vary. Some of the listed capacity is used for formatting and other functions, and thus is not available for data storage. Sequential read and write data transfer rates based on PNY internal testing; performance may vary depending upon drive capacity, host device, OS and application.