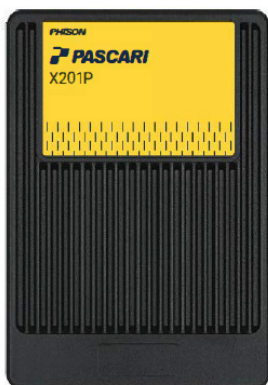


Phison Pascari X201P 7.68TB SSD Test Results - OpenFlex® Data24 4100



The test results for the Pascari X201P are based on a comprehensive evaluation to ensure compatibility, performance, and reliability performed by the Open Composable Compatibility Lab (OCCL). The assessment covers basic interoperability and specialized workload performance using industry-standard benchmarking tools.

For more information related OCCL, see: <https://www.opencomposable.com/>.

Drive Details

Drive	Pascari X201P
Form Factor	U.2 15mm
Interface	PCIe® Gen5, NVMe 2.0d
Security	ISE, TCG Opal 2.02, AES-XTS
Power	12-25W
Power Idle	5W
Part Number	XP208H087T68P328T1910

The following table displays the status and results of the testing of a specific device. The four columns represent specific configurations which progressively increase in terms of complexity in the following order: Local benchmark x1 > Data24-4100 x1 > Data24-4100 x8 > Data24-4100 x24. All devices will start with the Local x1 and Data24-4100 x1. Poor performance or interoperability issues in any configuration can eliminate the device from further consideration. The individual tests are consistent with general industry practices and reporting. Western Digital's OpenFlex Data24 NVMe-oF™ Storage Platform extends the high performance of NVMe™ flash to shared storage. The storage platform provides low-latency sharing of NVMe SSDs over a high-performance Ethernet fabric to deliver similar performance to locally attached NVMe SSDs.

For additional information on Western Digital's OpenFlex Data24 NVMe-oF Storage Platform, see:

<https://www.westerndigital.com/products/data-center-platforms/openflex-data24-nvme-of-platform?sku=1ES2380>.

Pascari X201P 7.68TB Top Line Performance

Test Description	Local x1	Data24-4100 x1	Data24-4100 x8	Data24-4100 x24
Read Bandwidth (128KB) MB/s	7,102	7,150	43,662	130,986
Write Bandwidth (128KB) MB/s	7,090	6,547	39,850	119,550
Random Read (4KB) K IOPS	1,699	1,714	8,550	25,649
Random Write (4KB) K IOPS	525	516	4,187	12,561
Random Mixed (4KB) K IOPS	930	913	7,291	21,874
4K Random Write Latency (µs)	10,569	19,090	16,620	16,620
4K Random Read Latency (µs)	52,830	58,712	57,198	57,198
4K Random Write 4-9s µs	18,560	25,216	22,485	22,485
4K Random Read 4-9s µs	65,792	69,120	66,389	66,389

Phison Pascari X201P SSD Test Results

The following table displays tests 2-4 normalized to test 1 (Local x1), the percentages in tests 2-4 should generally increase with more complex and larger configurations. The two QoS values (4-9s) by their stocastic behavior can have significant variability.

Pascari X201P 7.68TB Normalized to Local x1 Top Line Performance

Test Description	Local x1	Data24 x1	Data24 x8	Data24 x24
Read Bandwidth (128KB) MB/s	1.00X	1.01X	6.15X	18.4X
Write Bandwidth (128KB) MB/s	1.00X	0.92X	5.62X	16.9X
Random Read (4KB)K IOPS	1.00X	1.01X	5.03X	15.1X
Random Write (4KB) K IOPS	1.00X	0.98X	7.98X	23.9X
Random Mixed (4KB) K IOPS	1.00X	0.98X	7.85X	23.5X
4K Random Write Latency (µs)	1.00X	0.55X	0.64X	0.64X
4K Random Read Latency (µs)	1.00X	0.90X	0.92X	0.92X
4K Random Write 4-9s µs	1.00X	0.74X	0.83X	0.83X
4K Random Read 4-9s µs	1.00X	0.95X	0.99X	0.99X

Coefficients of Variation (CoV) are a standard statistical measure that are directly comparable to other CoVs as opposed to Standard Deviations (SD) that can only be compared if the mean is the same for two sets of data. $CoV = SD / MEAN$. NAND storage has a higher variability than DRAM, for example, that is highly consistent. NAND is a noise technology that has higher error rates than most solid state memory. Each manufacturing process has its own baseline error rate. These error rates are based on one second intervals provided by standard monitoring tools like iostat.

Pascari X201P 7.68TB CoV Analysis

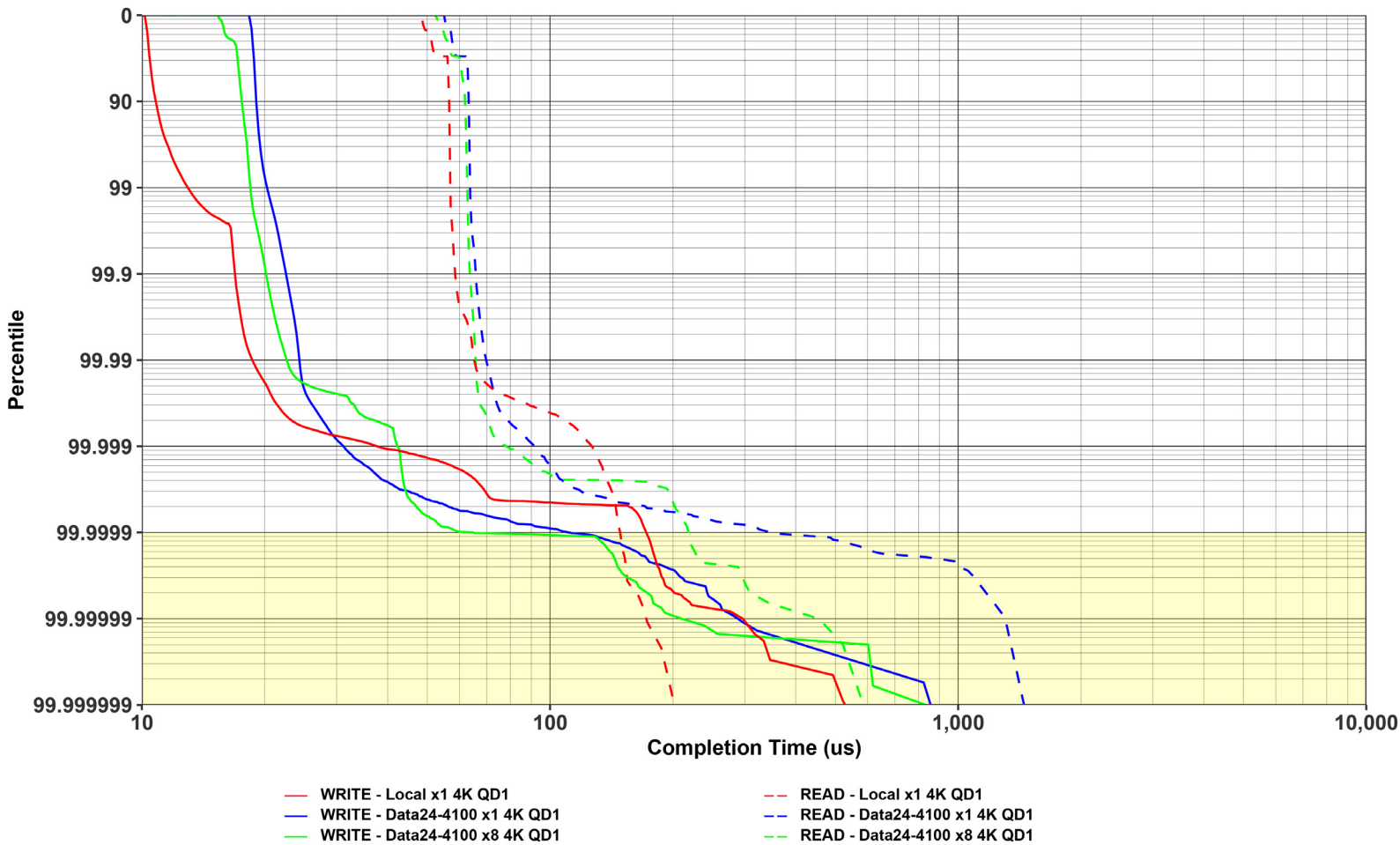
Test Description	Local x1	Data24 x1	Data24 x8	Data24 x24
Read Bandwidth (128KB) MB/s	0.06%	0.00%	3.98%	3.98%
Write Bandwidth (128KB) MB/s	0.00%	0.00%	2.11%	2.11%
Random Read (4KB)K IOPS	0.00%	0.00%	0.44%	0.44%
Random Write (4KB) K IOPS	0.16%	0.14%	0.06%	0.06%
Random Mixed (4KB) K IOPS	0.01%	0.03%	0.12%	0.12%
4K Random Write Latency (µs)	0.19%	1.59%	0.20%	0.20%
4K Random Read Latency (µs)	0.43%	0.68%	0.05%	0.05%
4K Random Write 4-9s µs	1.13%	4.31%	1.88%	1.88%
4K Random Read 4-9s µs	0.55%	1.21%	0.73%	0.73%

Phison Pascari X201P SSD Test Results

Exceedance Chart

The following charts contain the technical and most accurate information. Exceedance charts are typically used for only single drive, single process, queue depth one analysis as in the following example. The chart is the most fundamental measurement of SSD or disk performance as it shows the minimum latency as well as the expected error rate and latency for the device under test. These results are often referred to as the “number of nines”. For example, “4-9s” shows the latency or response time for 9999 of 10000 IOs. The number of IOs grows exponentially with the increase in the number of nines. This chart shows for 6-9s that the best performer for random writes is the small blue dotted line at approximately 90 μ s. Random writes are faster than random reads, because random writes are cached in the asynchronous write buffer and are periodically written to the underlying NAND media. Exceedance charts can be run and compared as long as all tests were run on similar systems using the same workload.

Latency Exceedance for Pascari X201P 7.68TB



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