DELL Technologies

Dell PowerMax vs. HPE Primera

Dell PowerMax 2500 / 8500		HPE Primera 600
End-to-End NVMe Unlock the performance benefits of NVMe with up to 384 NVMe SSDs and NVMe-oF host connectivity.		**Limited NVMe** Only up to 16 NVMe SSDs and no NVMe-OF host connectivity limit the performance benefits.
World's most secure mission-critical storage[1] Security includes Hardware Root of Trust, Secure Boot Chain of Trust, security anomaly detection, RBAC, and FIPS 140-2 validation.		**Lacks some security features** Security includes FIPS 140-2 validation and RBAC. No Hardware Root of Trust, Secure Boot Chain of Trust, or security anomaly detection.
Massive consolidation Block, File, vVols, Mainframe, and IBMi storage in a single array.		**Limited consolidation** No Mainframe or native IBMi. File services require a gateway server adding costs and complexity.
Multi-Controller, scale-out and up Up to 16 active nodes and 576 CPU cores. Up to 256 front-end host connectivity ports[2].		**Much less scalability than PowerMax** Only up to 4 active nodes and 160 CPU cores. Up to 48 front-end host connectivity ports.
Fast Dynamic Fabric interconnect Scale performance and capacity independently over fast 100Gb NVMe InfiniBand. Max node count not required for max capacity. Any node to any drive.		**Mixed interconnect** Combination of 32Gb PCIe and 12Gb SAS. Max node count required for max capacity. Cluster interconnect transfers data between nodes.
High Efficiency Trusted data services Global inline data reduction, available with 4:1 DRR guarantee for Open Systems, 3:1 for mainframe[4]. Simultaneous active/active metro sync replication with 3rd site async.		**Data services that slow performance**[3] Inline data reduction, available DRR guarantee varies per woakload. No mainframe support. Active/active metro sync replication, active/standby with 3rd site async.
NVMe/TCP host connectivity with auto-discovery Achieve great performance with NVMe/TCP and Dell SmartFabric Storage Software (SFSS), the industry's first end-to-end automated NVMe/TCP deployment utility for storage resources.		**No NVMe-oF and no NVMe/TCP** No support for NVMe-oF over FC or TCP.

[1] Based on Dell internal analysis of cybersecurity capabilities of Dell PowerMax versus cyber security capabilities of competitive mainstream arrays supporting open systems and mainframe storage, February 2022.
[2] Available with PowerMax 8500
[3] Based on a Principled Technologies report commissioned by Dell EMC, "Enable Greater Data Reduction and Storage Performance with Dell EMC PowerStore 7000 Series Storage Arrays," compared to HPE Primera A670 August 2020. Actual results may vary. See the full report here.
[4] Storage Data Reduction Guarantee: Requires customer signature and purchase of ProSupport Plus or ProSupport with Mission Critical. Applicable products include All-Flash Storage products only. See Terms and Conditions Comparisons based on publicly available information, July 2022.