Highlights

- Recognized as a leader (visionary) in the Gartner Magic Quadrant
- High performance at microsecond latency
- 500TB‡ effective flash capacity in 1 rack unit (RU)
- Live migration from IntelliFlash hybrid flash and all-flash systems
- Same operating environment across the entire IntelliFlash portfolio
- All-inclusive, perpetual software license included

Applications

- Real-time Analytics
- Transaction Processing
- Business Apps
- Virtual Servers
- LOB Apps
- SQL Server
- Oracle®
- SAP®
- Scientific Simulation
- Build & Test
- Data Repositories

Enterprise NVMe™ Flash Arrays

As enterprises continue to evolve in a highly competitive market place, they will be required to make real-time transactions and business decisions. To transact business in real time, enterprises will depend on their storage infrastructure to store and deliver data at very low latency. These enterprises will also rely on data they've collected, but has been dormant until this day, to make key business decisions. Your data demands a next-generation storage infrastructure to accelerate your business. With IntelliFlash NVMe flash arrays, you are prepared for today's performance requirements and future data-centric application environments.

Western Digital's IntelliFlash N-Series is a unified, NVMe-flash array that enables you to exponentially accelerate enterprise application environments and power business critical environments to deliver more operations than ever before. IntelliFlash N-series arrays combine the performance of NVMe, software-defined flash management, and rich data services to deliver high-performance shared storage array. N-Series is an NVMe all-flash array. The product is targeted at accelerating a wide variety of high-performance, mission-critical enterprise applications.

The N-series is the product of a holistic approach to the development of system solutions which we call silicon-to-systems design. With an extensive set of data services features, the N-series is being deployed in customer environments to accelerate workloads focused on real-time analytics, high-performance databases, and large-scale virtualization.

Powered by the IntelliFlash Operating Environment, the N-Series provides rich enterprise data services and advanced data management techniques to simplify your storage administration. All features are included with every array. Since the same operating environment drives the entire IntelliFlash array portfolio, it means you benefit from years of innovation, validation, and deployment experience with your storage environment.

Combine Your Deployment

Achieve greater flexibility on how you deploy and manage your storage infrastructure by simultaneously accessing your applications via block (FC, iSCSI) and file (NFS, CIFS, SMBv3) protocols. You don't need separate storage silos, file servers or licenses to enable any of these services.

Consolidate Your Storage

Deliver multiple storage classes through all-NVMe and all-flash pools in the same array to balance performance and capacity. Since the administration APIs and workflows are common across the entire portfolio and any storage pool, you don't need to learn multiple tools.

Benefits

Increase your storage efficiency and drive down your overall storage infrastructure costs with inline deduplication and compression. In addition to the CAPEX savings, as you aggregate your application environments in to a single storage system and apply data reduction techniques, you also reduce your OPEX expenses.

POWERED BY INTELLIFLASH OPERATING ENVIRONMENT

PREDICTIVE ANALYTICS WITH INTELLICARE™

REFRESHED FOR LIFE WITH AVAILABLE LIFETIME STORAGE

Specifications

Models	N5200	N5800
Controllers	Dual-Active Controller Architecture	
Memory (GB)	736	1,440
Processors	16 Cores per CPU (64 Total)	20 Cores per CPU (80 Total)
Storage Capacity		
NVMe Flash (TB) †	23 to 184	19 to 154
SAS Flash (TB)	N/A	N/A
Effective Capacity (TB) ‡	86 to 691	72 to 576
Physical		
Form Factor (RU)	2U	2U
Weight (Lbs)	65	65
Power (Watts)	900	1000
Software Services		
Protocols	SAN Protocols (iSCSI, Fibre Channel), NAS Protocols (NFS, CIFS, SMB 3.0)	
Data Services	Inline deduplication and compression, space efficient thin provisioning, snapshots and clones, remote replication, application-aware provisioning	
Management	Web browser, plug-ins for VMware vCenter and Microsoft System Center VMManager, SSH, IP-KVM, SNMP	
Redundancy	No single point of failure, Active/Active high availability architecture, dual ported storage media	
Network Connectivity		
Storage Connectivity	16 and 8 Gbps Fibre Channel; 40GE, 10GE Copper/Fibre, and 1 Gbps Ethernet	
Limited Warranty		
Basic	24×7 support via email and phone, next business day hardware replacement for defective parts and software updates for the first 90 days.	
Optional	Premier and Lifetime Storage Refresh support.	

†Values indicated are RAW capacity. One MB is equal to one million bytes, one GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes) when referring to storage capacity. Accessible capacity will vary from the stated capacity due to formatting and partitioning of the hard drives, the operating system and other factors

‡ Effective capacity assumes capacity after data protection, metadata overhead, and includes the benefit of data reduction with inline deduplication and compression. Data Reduction is calculated at 5-to-1. Where a range is present, the values are Min – Max.

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