

SFA7990

Scale-Up, Scale-Out Hybrid Flash Storage Appliance



DDN Storage Fusion Architecture[®] appliances are purpose-built to deliver scalable performance and capacity to address your toughest data management challenges. The SFA7990™ Hybrid Flash Storage Platform is designed to grow with the needs of your accelerating business requirements and provides flexibility without compromise. Select the optimal blend of price, performance and capacity, and the SFA7990 delivers, meeting the broadest range of workloads. The SFA7990 addresses the most intensive Artificial Intelligence and Deep Learning application demands right through to supporting long-term retention of large volumes of infrequently accessed data.

Scale Out for Performance, Scale Up for Capacity

The SFA7990 is the ultimate platform for the consolidation of your storage needs. Designed in the flash era to fully exploit the performance of your SSDs with predictable low-latency performance, the SFA7990 delivers industry-leading innovation and data intensive capabilities for both block and file storage at scale. Start as small as a few terabytes and grow seamlessly to petabyte capacity to service the most demanding mixed-workload challenges.

Simple, Efficient, Integrated

The SFA7990E appliance delivers high performance parallel file systems in an integrated package. DDN's SFA7990 EXAScaler[®] and GRIDScaler[®] provide a modular approach to building the most capable platforms for parallel file storage systems. Built, deployed and supported by the experts in data intensive workloads, these appliances are the gold standard for eliminating bottlenecks and maximizing application performance.

Common Use Cases

The flexibility and capabilities of the SFA7990 lends itself to a wide variety of applications:

- Artificial Intelligence
- Analytics
- Deep Learning
- Surveillance
- Genomic Research

Technical Specifications

System Features	Active/Active Storage Controllers DeClustered RAID (DCR) supports erasure coding schemas: RAID 6 8+2, 4+2 RAID 5 8+1, 4+1 RAID 1 1+1 Sequential read performance up to 20GB/s Sequential write performance up to 16GB/s Up to 700,000 IOPs per appliance
Controller Host Ports per Appliance	4 x EDR InfiniBand or 40/100 GbE (Embedded Only) 8 x FC16 2 x OPA (Embedded only)
Drive Support	90 x 3.5" drive slots support Enterprise-grade SSDs and HDDs
Supported Expansion Enclosures	SS9012 (one, two, or four enclosures) Description: 4U, 90 drive enclosure Supported Drive Types: NL SAS or SSD
Standard Software Features	LUN mapping and masking, intelligent write striping, read QoS, port zoning detection, data integrity check/correction, interface options (SSH to CLI, web-based GUI, Python API), state change messages (via e-mail, SNMP trap and syslog).
Physical and Environmental Attributes	Dimensions Height: 4RU rack mount 7" (178 mm) Width: 19" rack (482.6 mm) Depth: 46.06" (1170 mm) Power/Cooling Input Voltage: 200-240V 50/60 Hz Nominal Power: 1,250 W (empty); 2,330 W (max) Nominal Heat: 4,265 BTU/hr (empty); 7950 BTU/hr (max) Power Supplies: 4 hot swappable, redundant Fan Modules: 5 hot swappable, redundant Environment Op Temp, Sea Level: 10-35 degC; Op Temp, 3000m: 10-28 degC; 20%-80% humidity range Weights 140 lbs/63 kg (empty); 295 lbs/134 kg (max)
Safety	Agency Certifications UI, cUI, CE, FCC



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