100G Ethernet NVMe-oF Intelligent Storage Appliance

Highlights

Unmatched NVMe Performance

- NVMe-oF with multiple 100Gb Ethernet in a 1U Intelligent Storage Appliance

- Optimized engine to maximize performance with NVMe Flash drives

- Distributed process to maximum capability and performance

- Get Line-rate throughput with 100Gb Ethernet ports

- Capable of 2.5 million (4K) IOPS and 12.5 GBps throughput in compact 1U form factor

Enterprise Storage Features

- 10 NVMe Flash drives in 1U form factor virtually direct-connect to host via 100Gb Ethernet Fabric

- End-to–end RDMA to bypass CPU latency

- NVMe Namespace mapping support

- Advanced Reporting and Enclosure Management

- Simple management GUI to manage and monitor both storage and platform from a single–pane

- RedFish RESTful API support

- Redundant Hot-Swappable PSUs & fans

- 24x7 support call

NVMe-oF Intelligent Storage Appliance

NVMe-oF is synonymous with High Performance with Low Latency, but not all NVMe-oF products are built the same. The Promise NVMe appliance has the Intelligence to balance every aspect of the NVMe characteristic needed to achieve the maximum storage system performance. In addition, Enterprise Feature sets provide reliability without sacrificing performance to ensure business continuity and growth

Utmost Performance

Blazing throughput and IOPS leveraging NVMe technology stoked by intelligent coordination and integration.

Accelerate your applications multifold

NVMe technology brings storage virtually closer to the client and cuts latency to a minimum. Run demanding applications such as Media & Entertainment, OLTP, OLAP, Database, HyperScale Infrastructure, Data Analtics/AI and HPC much faster to increase productivity multifold.

Storage Simplified

Advanced Graphical User Interface software simplifies overall storage and platform organization and management from a single-pane of glass.
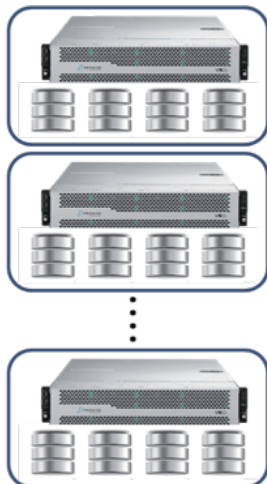
DATA SHEET
100G Ethernet NVMe-oF Intelligent Storage Appliance

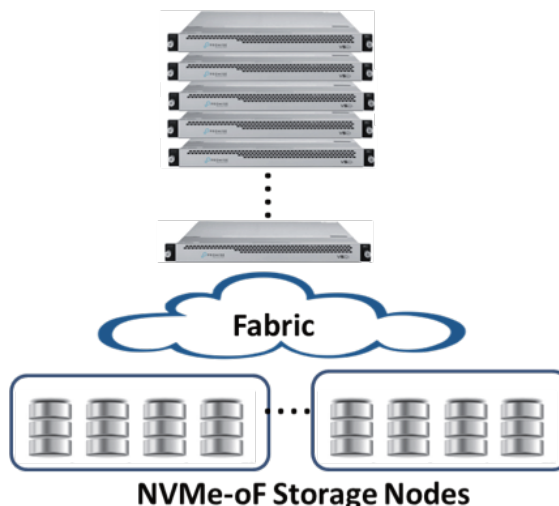| Models	
NVMe Appliance Model	NVF-7000N (1RU Form Factor with 10 NVMe U.2 slots)
Operational	
Enterprise Features	• Comply with NVMe v1.3a • NVMe Namespace mapping support • 100Gb Ethernet Fabric – NVMe-oF v1.0 • NVMe-oF Off-Load Engine • RDMA data transfer - RoCE v2.0 • RedFish RESTful API • Advanced Enclosure Management • In-band and Out-of-band Management • Code update of Controller and Drives • Embedded Management GUI • Advance Error logging and Reporting • Redundant Hot-Swappable PSU/Cooling
Host Connectivity	
Network Technology	100GBase-X
Connectivity	2 ports 100G Ethernet QSFP28
Management Ports	1 port RJ45 1GbE for Management and 1 port RJ45 1GbE Dedicated for BMC
Processor and Memory	
CPU	Single Socket 8-Cores AMD EPYC 7000 Series Processor
Memory	40GB
Power/Environmental	
Power Supply	Voltage: 100--240 Vac 50-60Hz Wattage: 650W Redundant Hot-Swappable,
Temperature Range	Operational: 10° to 35°C, Non-Operational: -40° to 60°C
Relative Humidity	Operational: 20% to 80% (Non-Condensing), Non--Operational: 5% to 95% (Non-Condensing) @ 35°C
Regulatory/Safety	EMC Class A: CE, FCC, VCCI, RCM Safety: CB/LVD Environmental: ROHS 6/6 Compliance
Warranty and Support	
Warranty	PROMISE 3-Year limited warranty with 24/7 (Americas) telephone and web support. In addition to our industry-leading warranty, PROMISE offers extended warranty and onsite parts replacement options with service levels with onsite response times as low as 4 hours
Support	1 port RJ45 1GbE for Management and 1 port RJ45 1GbE Dedicated for BMC

USE CASE MODEL
Scale Servers and Storage Independently and optimize storage utilization without sacrificing performance

Server/SSD storage silos (DAS)

Disaggregation server and storage

Fabric

NVMe-oF Storage Nodes

The information herein is presented as preliminary and is subject to change without notice.