

Introducing the InQuinox SD3 A NetBackup™ PureDisk™ Appliance Line



Highlights

- **Turnkey** data deduplication engine – SD3 appliances are preconfigured for optimized performance of PureDisk
- **Four expandable base models:** Remote Office (2000), Small (3000), Medium (5000), and Large (6000)
- **Highly scalable** models from 1TB to 192TB of usable capacity (at 15:1 rate equals 2.8PB of non-deduped data)
- **High performance media servers** can be embedded within the appliance for true Plug N Play compatibility
- **Reliable storage hardware** – no service for 3+ years
- **Built in the USA**
- Supports **datacenters and remote offices**, for use with Symantec’s PureDisk Deduplication Option or Remote Office option
- **High Availability (HA)** – both the 5000 and 6000 include an HA architecture and high performance SAN-based disk subsystems
- Extremely **high rates for restoration** and backup
- **Energy efficient** via minimized footprint, power, and cooling
- Hardware and **serviceability enhancements** provide early warning alerts and reporting

Simplicity and Scalability

Simplicity is the key to successful deployment and operation of PureDisk. To meet that goal, InQuinox created the SD3 line of deduplication appliances with these objectives:

1. Simplify the deployment of PureDisk
2. Enhance and optimize the performance of PureDisk
3. Deliver the solution in an energy-efficient, robust hardware package, with the industry’s smallest footprint

PureDisk is pre-installed and pre-configured on all SD3 appliances to simplify the installation and move rapidly from “Dock to Production”. As a result, the installation and configuration of our SD3 appliance requires dramatically less associated services than other PureDisk, or deduplication appliance implementations.

Four base SD3 models are specifically designed to meet a large range of capacity requirements and each model can be further expanded before, or after, deployment.

Model	Usable Capacity (Base-Max)	Equivalent Capacity ¹ (15:1 ratio)	Number Dedupe Engines	Base Footprint	Maximum Footprint	Power Consumption (W, BTU/Hr)	Storage Energy Footprint ² (BTU/TB)
2000	1.3-4 TB	16.5-60 TB	1	1U, Desktop	1U, Desktop	175, 600	14
3000	4-32 TB	60-480 TB	1	3U	6U	400, 1365	14
5000	32-96 TB	480-1440 TB	1-3	8U	17U	1550, 5290	6
6000	96-192 TB	1,440-2,880 TB	3-6	19U	37U	2633, 9000	6

Table 1. InQuinox SD3 models, featuring capacities, footprint and power consumption.

1 Although general rules apply for estimating de-duplication rates, estimated rates can vary widely from the actual rate you will obtain within your specific environment.
2 At fully configured equivalent capacity.

Extreme Performance

The InQuinox SD3 appliances are specifically engineered to optimize the performance of PureDisk. Each PureDisk node contains a long life system board based on high performance CPUs with a point-to-point system bus for fast I/O. The I/O channels are optimized with high performance disk subsystems. Across the product line, CPUs range from dual-core to quad-core, networking components range from 1GbE to 10GbE connection, and storage subsystems can generate up to 5.2GB/sec of continuous throughput. The chart below offers a glimpse into the speed with which your data can be restored or backed up...

	InQuinox SD3 6000 + PureDisk	CommVault Simpana + Dell	Quantum + Dell	Avamar + CLARiiON	Data Domain DD660	Data Domain DD880
Performance	60 TBph	1.5 TBph	1.1 TBph	.22TBph	2.0 TBph	18 TBph
# of engines	6	1	1	1	4	8
Perf/Node	10 TBph	1.5 TBph	1.1 TBph	.21 TBph	.5 TBph	2.2 TBph

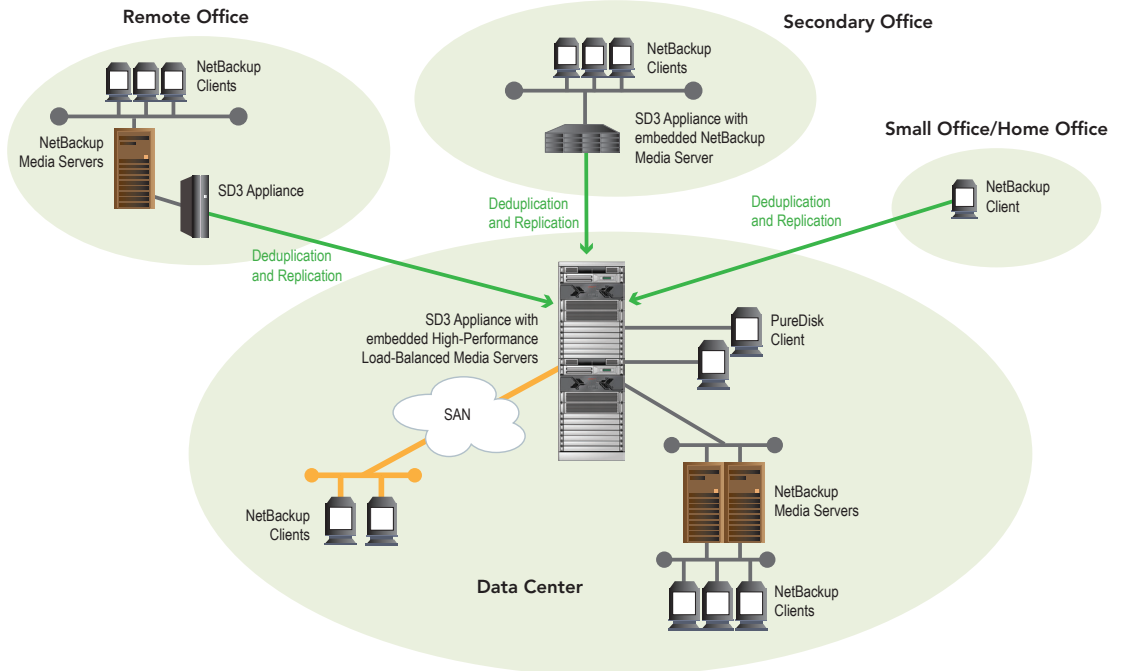
Table 2. InQuinox SD3 5000 performance versus competitors, of similar size, per the respective company's published numbers.

Industrial Strength

The SD3 models are built in the USA with industrial strength internal components and include a 1-year parts and service warranty. All models can be built as ruggedized systems to operate in extreme environments of altitude, temperature, humidity and vibration.

All models contain redundant power supplies to enable high-availability. In the 2000 and 3000 models, all disk drives are hot pluggable, and accessible from the front of the unit. The SAN-based disk subsystem in the 5000 and 6000 models feature dense capacity, low power requirements, and are self-healing arrays which are guaranteed to be maintenance free for 3 years.

Figure 1. Various InQuinox SD3 models with NetBackup PureDisk replication.



Contact InQuinox Sales at 800.495.2959 for information on feature and product availability.

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Extended high availability features can be added to 5000 and 6000 models to enable continuous performance. Veritas™ Cluster Server (VCS) is pre-installed and pre-configured on these models. High-performance media servers further extend the range of the SD3 through features such as Fibre Transport and other NetBackup enhancements.

Hardware and serviceability enhancements have been added to the PureDisk OS to provide early warning alert capabilities with SNMP and/or E-mail alerts.

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