



# ExaGrid

## Product Line Configurations

DATA SHEET



ExaGrid Named "Visionary" in the 2015 Magic Quadrant for Disk Backup with Deduplication Appliances



DCIG Rates ExaGrid #1 "Recommended Deduplicating Backup Appliance" in 2018 Buyer's Guide



ExaGrid Voted SVC's "Product of the Year, Hyper-converged Backup and Recovery/Archive - 2017"



Storage Magazine Names ExaGrid "Product of the Year, Backup & DR Hardware Finalist - 2017"



ExaGrid Wins Storage Awards' "Product of the Year, Storage Efficiency & Optimisation - 2017"

### High Performance Hyper-converged Secondary Storage for Backup with Data Deduplication

ExaGrid's disk backup with data deduplication system is the only solution purpose-built for backup that leverages a unique architecture optimized for scalability, performance, and price. The system scales as needed by adding ExaGrid appliances, which virtualize into a single scale-out system automatically, adding capacity and processing power while acting and being managed as one unified system.

ExaGrid disk-based backup appliances include scale-out computing software, which virtualizes them into a single pool of long-term capacity. Capacity load balancing of all data across appliances is automatic. Only with ExaGrid's full appliances in a scale-out architecture, integrated landing zone, and adaptive deduplication do you get:

- Fastest backups and shortest backup windows with optimal recovery point at the disaster recovery site
- Fastest full system restore (from full backup copy on disk)
- Instant VM Recovery
- No expansion of backup windows as data grows
- Seamless scalability as data grows with no forklift upgrades
- No obsolescence of previous model systems as data grows
- Protected data at rest with 256-bit AES encryption (encrypted models only); data is never in the clear on the disk storage using FIPS 140-2 Validated Self-Encrypting Drives (SEDs)

ExaGrid Model	Raw Capacity (TB)	Usable Capacity (TB)	Capacity for Weekly Full (TB)	Capacity for 16 Weekly Fulls (TB)	Max Backup Thrupt (TB/hr)
<b>ExaGrid Appliances</b>					
EX3000	12	6	3	48	0.72
EX5000	16	10	5	80	1.08
EX7000	20	14	7	112	2.40
EX10000E	32	20	10	160	2.40
EX13000E	40	28	13	208	2.40
EX21000E	60	42	21	336	4.32
EX32000E	84	66	32	512	7.56
EX40000E	96	78	40	640	8.00
EX63000E	144	126	63	1008	13.50
<b>ExaGrid Appliances with Encryption</b>					
EX7000-SEC	20	14	7	112	2.40
EX10000E-SEC	32	20	10	160	2.40
EX13000E-SEC	40	28	13	208	2.40
EX21000E-SEC	60	42	21	336	4.32
EX32000E-SEC	84	66	32	512	7.56
EX40000E-SEC	96	78	40	640	8.00
EX63000E-SEC	144	126	63	1008	13.50



# ExaGrid Appliance Product Line Configurations

With ExaGrid disk-based backup appliances, backups are written directly to a disk landing zone to avoid inline processing and ensure the highest possible backup performance, resulting in the shortest backup window. Adaptive deduplication performs deduplication and replication in parallel with backups while providing full system resources to the backups for the

shortest backup window. Available system cycles are utilized to perform deduplication and offsite replication for an optimal recovery point at the disaster recovery site. Once complete, the onsite data is protected and immediately available in its full unduplicated form for fast restores, VM Instant Recoveries, and tape copies while the offsite data is ready for disaster recovery.

ExaGrid Model	Raw Capacity (TB / PB)	Usable Capacity (TB / PB)	Capacity for Weekly Full (TB / PB)	Capacity for 16 Weekly Fulls (PB)	Max Backup Thruput (TB/hr)
<b>Example System Configurations</b>					
EX80-G	192 TB	156 TB	80 TB	1.3	16
EX126-G	288 TB	252 TB	126 TB	2.0	27
EX252-G	576 TB	504 TB	252 TB	4.0	54
EX378-G	864 TB	756 TB	378 TB	6.0	81
EX504-G	1.2 PB	1.0 PB	504 TB	8.1	108
EX630-G	1.4 PB	1.3 PB	630 TB	10.1	135
EX756-G	1.7 PB	1.5 PB	756 TB	12.1	162
EX882-G	2.0 PB	1.8 PB	882 TB	14.1	189
EX1008-G	2.3 PB	2.0 PB	1.0 PB	16.1	216
EX2016-G	4.6 PB	4.0 PB	2.0 PB	32.2	432

Scales to 32 appliances in a single scale-out system (2PB full backup @ 432TB/hr.)

## Simple, Turnkey Appliances

ExaGrid's appliances work seamlessly with the industry's leading backup applications and typically installs in about one hour. The product line's multiple appliance models can be combined into a single scale-out system of up to 4.6PB raw capacity, allowing full backups of up to 2PB.

ExaGrid appliances are comprised of Intel® processors, enterprise SATA/SAS drives, RAID6 with hot spare, and ExaGrid software. Since each appliance includes the appropriate amount of processor, memory, disk, and bandwidth for the data size, as each appliance is plugged into the switch and virtualized into a single scale-out system, performance is maintained and backup times do not increase as data is added. This combination of capabilities in a turnkey appliance makes the ExaGrid system easy to install, manage, and scale.

## Scalable Architecture

Multiple core ExaGrid disk-based backup appliances include scale-out computing software which allows them to virtualize into one another when plugged into a switch. As a result, any of the multiple appliance models can be mixed and matched into a single scale-out system configuration of up to 4.6PB raw capacity and allowing full backups of up to 2PB. Once virtualized, they appear as a single pool of long-term capacity. Capacity load balancing of all data across servers is automatic, and multiple systems can be combined for additional capacity. Data is load balanced across all appliances in the system to ensure the best deduplicated storage efficiency.

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