



# ExaGrid® Appliance Product Line Configurations

DATA SHEET



"Best-in-Class" Disk Backup Solution  
in Under \$100k and Under \$50k  
2013 Buyer's Guide Reports



ExaGrid Named 2013  
"Disk Backup Champion"



InfoWorld.com Awards ExaGrid ES  
"Technology of the Year - 2013"



ExaGrid Wins  
"Disk Based Product of the Year:  
Small/Mid-range"



ExaGrid Recognized as  
"Top Emerging Vendor" in  
Customer Interest

## High Performance Disk-Based Backup with Data Deduplication

ExaGrid's disk backup with 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 GRID architecture automatically, adding capacity and processing power while acting and being managed as one unified system.

ExaGrid disk-based backup appliances include GRID computing software, which virtualizes them into a single pool of long-term capacity. Capacity load balancing of all data across servers is automatic, and multiple GRID systems can be combined for a total backup capacity up to 4PB. Only with ExaGrid's full server in a GRID architecture and post-process deduplication do you get:

- 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
- Fastest backups and shortest backup windows
- Fastest full system restore (from full backup copy on disk)
- Instant VM Recovery (with Veeam)
- Protected data at rest with 256-bit AES encryption (encrypted models only); data is never in the clear using FIPS 140-2 Validated Self-Encrypting Drives (SEDs)

ExaGrid Model	Raw Capacity (TB)	Usable Capacity (TB)	Full Backup (TB)	Capacity for Weekly Fulls		Capacity for Daily Fulls		Max Backup Thruput (TB/hr)
				Copies	Total Backup Data (TB)	Copies	Total Backup Data (TB)	
<b>ExaGrid Appliance Nodes</b>								
EX1000	5	2	1	16	16	75	75	0.36
EX2000	7	4	2	16	32	75	150	0.36
EX3000	9	6	3	16	48	75	225	0.72
EX4000	11	8	4	16	64	75	300	1.08
EX5000	13	10	5	16	80	75	375	1.08
EX7000	16	13	7	16	104	75	488	2.40
EX10000E	26	20	10	16	160	75	750	2.40
EX13000E	32	26	13	16	208	75	975	2.40
EX21000E	48	42	21	16	336	75	1,575	4.32
<b>ExaGrid Appliance Nodes with Encryption</b>								
EX7000-SEC	16	13	7	16	104	75	488	2.40
EX10000E-SEC	26	20	10	16	160	75	750	2.40
EX13000E-SEC	32	26	13	16	208	75	975	2.40
EX21000E-SEC	48	42	21	16	336	75	1,575	4.32

# ExaGrid Appliance Product Line Configurations

The ExaGrid disk backup appliance uses post-processing to perform its deduplication. This means that the backup data is written directly from the backup server to ExaGrid's landing zone (disk) at the highest possible rate with no inline processing to interfere, resulting in the shortest possible backup window. Once the backup job is complete and off the network, the data is protected and immediately available for restore or tape copy. Then the appliance deduplicates (and simultaneously replicates) the data in the background.

## Simple, Turnkey Appliances

ExaGrid's disk backup appliances work seamlessly with the industry's leading backup applications, and the appliance

typically installs in about one hour. The product line's multiple appliance models can be combined into a GRID configuration of up to 480TB raw capacity, allowing full backups of up to 210TB.

ExaGrid appliances are comprised of Intel® processors, enterprise SATA/SAS drives, RAID 6 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 the GRID, 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.

ExaGrid Model	Raw Capacity (TB)	Usable Capacity (TB)	Full Backup (TB)	Capacity for Weekly Fulls		Capacity for Daily Fulls		Max Backup Thruput (TB/hr)
				Copies	Total Backup Data (TB)	Copies	Total Backup Data (TB)	
<b>Example GRID Configurations</b>								
EX26-GRID	64	52	26	16	416	75	1,950	4.80
EX42-GRID	96	84	42	16	672	75	3,150	8.64
EX63-GRID	144	126	63	16	1,008	75	4,725	12.96
EX84-GRID	192	168	84	16	1,344	75	6,300	17.28
EX105-GRID	240	210	105	16	1,680	75	7,875	21.60
EX126-GRID	288	252	126	16	2,016	75	9,450	25.92
EX147-GRID	336	294	147	16	2,352	75	11,025	30.24
EX168-GRID	384	336	168	16	2,688	75	12,600	34.56
EX189-GRID	432	378	189	16	3,024	75	14,175	38.88
EX210-GRID	480	420	210	16	3,360	75	15,750	43.20

## Scalable GRID Architecture

Multiple core ExaGrid disk-based backup appliances include GRID 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 GRID configuration of up to 480TB raw capacity and allowing full backups of up to 210TB. Once virtualized, they

appear as a single pool of long-term capacity. Capacity load balancing of all data across servers is automatic, and multiple GRID systems can be combined for additional capacity. Even though data is load balanced, deduplication occurs across the systems so that data migration does not cause a loss of effectiveness in deduplication.