



ExaGrid® Appliance Product Line Configurations

DATA SHEET



ExaGrid EX13000E Named
"Best in Class"



ExaGrid Wins
"Best Value for the Money"



Storage Magazine Awards ExaGrid
"Technology of the Year 2013"



ExaGrid Named
"Disk Backup Champion"



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 2PB. 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 Thrupt (TB/hr)
				Copies	Total Backup Data (TB)	Copies	Total Backup Data (TB)	
ExaGrid Appliance Nodes								
EX1000	3.5	2	1	16	16	75	75	0.36
EX2000	5.5	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	23	20	10	16	160	75	750	2.40
EX13000E	32	26	13	16	208	75	975	2.40
ExaGrid Appliance Nodes with Encryption								
EX7000-SEC	16	13	7	16	104	75	488	2.40
EX10000-SEC	23	20	10	16	160	75	750	2.40
EX13000-SEC	32	26	13	16	208	75	975	2.40

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 320TB raw capacity, allowing full backups of up to 130TB.

ExaGrid appliances are comprised of multi-core processors, enterprise SATA 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)
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Example GRID Configurations								
EX17-GRID	39	33	16.5	16	272	75	1,275	3.5
EX20-GRID	48	39	19.5	16	312	75	1,463	3.5
EX26-GRID	64	52	26	16	416	75	1,950	4.8
EX30-GRID	75	63	30	16	480	75	2,250	5.9
EX39-GRID	96	78	39	16	624	75	2,925	7.2
EX52-GRID	128	104	52	16	832	75	3,900	9.6
EX65-GRID	160	130	65	16	1,040	75	4,875	12
EX78-GRID	192	156	78	16	1,248	75	5,850	14.4
EX91-GRID	224	182	91	16	1,456	75	6,825	16.8
EX104-GRID	256	208	104	16	1,664	75	7,800	19.2
EX117-GRID	288	234	117	16	1,872	75	8,775	21.6
EX130-GRID	320	260	130	16	2,080	75	9,750	24

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 320TB raw capacity and

allowing full backups of up to 130TB. 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.