



# ExaGrid

## Appliance 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 2016-17 Buyer's Guides



ExaGrid Voted SVC's "Product of the Year, Backup and Recovery/Archive – 2016"



Storage Magazine Awards ExaGrid "Gold Product of the Year, Backup Hardware – 2015"



ExaGrid Receives Network Computing "Return on Investment Award – 2015"



Computer Tech Review Names ExaGrid "Most Valuable Product (MVP) – 2015"

### 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 logical backup capacity of 16PB. Only with ExaGrid's full server in a GRID architecture 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 (with Veeam)
- 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 Fulls (TB)	Capacity for 16 Weekly Fulls (TB)	Max Backup Thruput (TB/hr)
<b>ExaGrid Appliance Nodes</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
<b>ExaGrid Appliance Nodes 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



# ExaGrid Appliance Product Line Configurations

With ExaGrid disk-based backup appliances, backups are written directly to a disk landing zone, avoiding inline processing, ensuring 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)	Usable Capacity (TB)	Capacity for Weekly Fulls (TB)	Capacity for 16 Weekly Fulls (TB)	Max Backup Thruput (TB/hr)
<b>Example GRID Configurations</b>					
EX61-G	156	120	61	976	12.3
EX80-G	192	156	80	1280	16.0
EX120-G	288	234	120	1920	24.0
EX160-G	384	312	160	2560	32.0
EX200-G	480	390	200	3200	40.0
EX240-G	576	468	240	3840	48.0
EX280-G	672	546	280	4480	56.0
EX320-G	768	624	320	5120	64.0
EX360-G	864	702	360	5760	72.0
EX400-G	960	780	400	6400	80.0
EX440-G	1056	858	440	7040	88.0
EX480-G	1152	936	480	7680	96.0

\* Scales to 25 appliances in a scale-out GRID (1PB full backup / 200TB/hr.)

## 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 2.4PB raw capacity, allowing full backups of up to 1PB.

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

## 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 2.4PB raw capacity and allowing full backups of up to 1PB. 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.

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