

Technical Data

Your benefit

Head Unit (NAS) with file system and cache

Product

Network Attached Storage (NAS) with RAID-1 hard disk

Capacity

Gross/net cache: 2/1 terabyte (RAID-1, 1 TB hard disk)

Network

Interface: 1000/100/10Base-T

Protocol: SMB/CIFS with Active Directory Support, NFS

Direct connection: FAST LTA API

Configuration

File system: FAST LTFs linear file system, optimized for WORM storage

Software: LTFs management (preinstalled) Web-based administration and configuration, DHCP client / static IP address configuration

Remote monitoring

Daily encrypted email status reports to local admin and FAST LTA (opt.), Web-based intranet/VPN monitoring

Power consumption

Continuous operation: ~ 90 W, redundant power supply (opt.)

Physical data (19" wide, 2U)

Dimensions WxHxD cm (inch): ~ 43 (17) x 8.8 (3.15) x 41 (16)

Silent Cubes storage unit

Product

Hard disk-based storage unit with WORM hardware

Capacity

Number of hard disks: 12 (8 are sufficient to completely restore all data)

Storage capacity

gross/net: 6/4 terabytes

12/8 terabytes

24/16 terabytes

Network

Interface: 1000/100/10Base-T, 10Base-T link in standby mode

Firmware

WORM: WORM technology

Redundancy: Quadruple redundancy by Erasure Resilient Coding

Data integrity: Automatic, regular self-auditing (Digital Audit) using SHA-512 hash codes, detects hard disk errors and initiates auto repair

Power consumption

Standby mode: < 2 W, redundant power supply

Continuous operation: ~ 125 W

Physical data

Dimensions WxHxD cm (inch): ~ 22 (8.5) x 22 (8.5) x 23 (9)

Weight: ~ 13 kg (28.6 lbs.)

Silent Cubes in a 19-inch rack

Six storage units fit on one shelf (6U) – in a side-by-side and back-to-back arrangement.

In excess of a Petabyte (net) of data can be stored in only two standard 19-inch (6U) racks.

Competence pays off when a goal needs to be reached quickly and reliably. In IT technology, hardware and software play a role, but the real quality difference comes from service and support. The GID Group have specialists who approach no task as impossible.



Services include:

Consulting - Data analysis to help find an effective solution

Solution Design - We put together a solution proposal in graphics and text, and install and configure all the necessary components.

Turnkey Solutions - We procure, deliver and help integrate your turnkey solution.

Installation - Our professional systems-integration provides a complete on-site installation.

Training - We offer customized training.

First & Second Level Support - After installation and integration, GID provides maintenance over a specified term.

- Your goal is our challenge -

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D A T A D O C
IMAGING SERVICE COMPANY
Silent Cubes

up to
16 TB
in less than one cubic foot
< 2 watts in standby



Less Energy & Costs

More benefit

WHAT IS IT?

Energy-Saving TRUE WORM Storage for Long Term Data Archiving

	Premium Hard-Disk Storage	RAID-6 Disk Storage	Digital Tape Libraries	Silent Cubes - with 100% Constant Running	Silent Cubes - with 4% Activity (typical read/write access)
Active ratio	100%	100%	100%	100%	4%
Operating energy consumption - Watts/h	3000	1800	1000	820	190
Costs/year*	\$ 5,782	\$ 3,469	\$ 1,927	\$1,580	\$ 366
5 years energy costs + 8% increase	\$ 31,222	\$ 18,733	\$ 10,405	\$ 8,532	\$ 1,976

*Energy cost/kWh = \$ 0.22 (Power and cooling)

up to
93%
energy savings

What is it?

- The disk-based, long term data storage alternative to digital tapes and optical media.
- 24 terabytes (16 TB net) storage in less than only one cubic foot and up to 576 TB net in one standard 19-inch rack
- Greener, less costly, quieter and more secure than any other Long Term Archiving option.

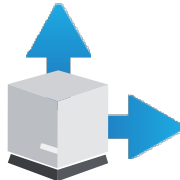
BIG SAVINGS
in energy & costs

BIG SOLUTION in small package



Security

With four redundancy resources, the redundancy coding for Silent Cubes is more secure than a mirrored RAID6 configuration.



Modularity

Silent Cube storage systems are scalable into the petabyte realm. You can add storage units at any time.



Cost/Benefit

Installation, maintenance and expansion of Silent Cubes requires very little investment and manpower.



Service

Should there ever be a failure, our service will replace the respective components while preserving all your data. Even software updates and hardware costs are fully covered.

Silent Cubes

Fit any requirement

- Medical storage (PACS, KIS, RIS, etc.)
- Email, File, SPS archiving
- DMS/ECM archiving
- Records management
- Archiving solutions like CAD, Multimedia, Broadcast recordings
- Accounting, HR
- HSM
- Optical Disk replacement
- WORM Tape Archive replacement
- Aircraft Industry
- Law Firms