



Technical Specification

EasyLTO



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1. Unit specifications

CPU:	Intel Pentium CPU
Core Count:	2 CORES
Clock Speed:	2.20GHz
Memory:	16GB (2x8GB)
Unit dimensions:	41cm x 26.5cm x 21cm (16.1" x 10.4" x 8.2")
Unit weight:	9.2kg (20.2lbs)
Input range:	100 - 240 VAC, 50-60Hz
PSU safety:	EMC - USA-UL listed. Canada-CUL listed, Germany-TUV certified, EN60950/IEC 60950-Compliant, CB report, CCC certification
Power supply:	Silverstone 500W PSU
Power requirements standby:	11W
Power requirements full load:	240W
Operating temperature range:	0°C - 40°C
Non-operating range:	-40°C - 70°C
Operating humidity range:	8 - 85% non-condensing
Non-operating humidity range:	5 - 95% non-condensing
Unit form factor:	Portable

Bootable replacement OS is provided on **Rescue Capsule** USB drive for fast system recovery.

2. Options

- **LTO-6** 1 x LTO-6 drive without internal storage
- **LTO-6** 1 x LTO-6 drive with 4TB SmartBackup storage
- **LTO-7** 1 x LTO-7 drive without internal storage
- **LTO-7** 1 x LTO-7 drive with 14TB SmartBackup storage
- **LTO-7** 1 x LTO-7 drive with 24TB SmartBackup storage
- **LTO-8** 1 x LTO-8 drive without internal storage
- **LTO-8** 1 x LTO-8 drive with 24TB SmartBackup storage
- **LTO-8** 1 x LTO-8 drive with 42TB SmartBackup storage

3. Connectivity

On Motherboard

- 2 x USB 3.0 ports
- 1 x VGA connector
- 2 x 10Gb Ethernet ports (RJ45) or 10/25Gb (SFP+)
- 1 x RJ45 dedicated IPMI LAN port
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4. Key Features

- **CORE.4 Lite OS**
Highly intelligent and powerful operating system developed by the GB Labs engineering team specifically designed for the creative world.
Friendly, full of features and management tools accessible through a clean and easy-to-use web interface, powered by set of intelligence and technolo-

gy gained over years of experience in the Media and Entertainment industry. CORE.4 Lite OS offers a feature set that can adapt as workflow evolves and changes.

- **LTO Manager**

The LTO Manager and FlashBack for VAULT and EasyLTO makes it easier for users to preview their archived footage and find the exact film and clips they're looking for, with minimal effort - saving time and money. Created to provide customers with an updated interface, an updated VAULT platform, and a larger range of features to help improve and manage backup and archive workflows. These updates also come complete with the much desired: Tape encryption, Autoloader support and FlashBack tools.

- **FlashBack**

FlashBack is an innovative way of being able to preview the files that are being written to the tape; enriching users' search and browse experience.

FlashBack for EasyLTO makes it easier for users to preview archived footage and find the exact film and clips they're looking for with minimal effort - saving time and money.

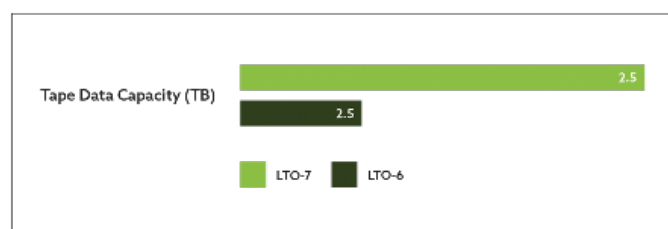
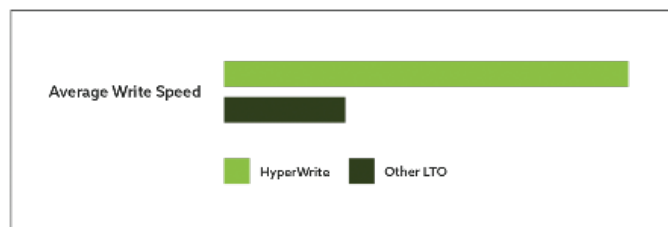
When media is on the tape, we cannot preview files straight from the tape (especially when the tape is not in the drive), so we take a small clip from the file and generate a thumbnail preview of various points throughout.

- **HyperWrite**

GB Labs developed the HyperWrite technology to significantly reduce the time it takes to write to tape, while extending the life of your LTO tape and drive.

Typical LTO systems pause after each file is written without optimisation. This means that typical LTO systems can take all day to finish a single job. By using HyperWrite, GB Labs crushes long write times by writing at native LTO speeds of up to 360MB/s even with small files. By intelligently optimising how we write to tape, there is a massive reduction in the wear to the LTO tape itself as well as the drive.

If you need a truly professional and safe system to use in your archiving process EasyLTO with HyperWrite is the only choice.



- **SmartBackup**

The SmartBackup option adds critical functionality to your system that will simply backup and archiving while safeguarding your creative projects like no other solution.

The SmartBackup system provides a powerful integrated nearline storage protected by RAID 5 and powered by GB Labs science to create turnkey backup configurations.

- **Backup** - Safeguard your project files to EasyLTO
- **Automate** - Let EasyLTO archive your projects to tape automatically
- **Migrate** - Transfer existing libraries to new LTO 6 or LTO 7 tapes
- **Cloud integration** - Exchange data with Cloud services such as Amazon S3
- **Universal** - Create Workspaces everyone can connect to via SMB/AFP/NFS/HTTP
- **Instant Access** - Recently archived projects on tape are still available in seconds



- **Third Party Catalog Support**

Import native catalogs, XML or CSV exported catalogs or simply insert TAR format archive tapes and the unit will read the index file, then update the catalog with the contents of that tape. Data does not need to be imported, which means you can quickly rebuild your previous archive of tapes, including Cache-A Catalogs.

- **Tape Catalog**

EasyLTO stores all activity and extensive amounts of metadata within 1 master file that is kept on the unit. This file can be backed up easily to client or servers manually or through automatic scheduling. The Tape Catalog can also be shared between multiple EasyLTO units, either on or off-site so as to provide a single, universal catalog.

- **Snapshot**
GB Labs Snapshot to tape backup allows your to keep an ongoing, automated backup of your most important data.
- **Multiple Source to tape**
EasyLTO is able to use multiple, simultaneous locations for writing to tape. GB Labs Servers, NAS, USB and the internal storage (if purchased).
- **Cloud integration**
Replication enabled to the storage from services such as Amazon S3, Dropbox and Backblaze B2.

5. File System

XFS is a 64-bit, high-performance, journaling file system used on all GB Labs storage platforms. XFS is particularly proficient at parallel I/O due to its design based on allocation groups. This enables extreme scalability of the I/O threads, file system bandwidth, and file system sizes when spanning multiple storage devices.

XFS ensures data consistency by performing metadata journaling and supporting write barriers. Capacity allocation is performed through extents with data structures stored in B+ trees, improving the overall file system performance, especially when handling large files. Delayed allocation helps in preventing file system fragmentation, while online defragmentation is also supported.

6. API and third-party integration

A complete and comprehensive API is available for third-party integration with functions of CORE OS, including, File Manager and HSM automation capabilities of all GB Labs servers.

In addition, there is also a complete API for the EasyLTO product range, which is also readily available to provide powerful integration with other servers running management services, such as; MAM and DAM software.



UK/ EMEA (HQ)

GB Labs Ltd
Units 1-2 Orpheus House
Calleva Park, Aldermaston
Berkshire, RC7 8TA
United Kingdom
Tel: +44 (0)118 455 5000
Email: info@gb labs.com
Web: www.gb labs.com

USA

GB Labs Corp
28494 Westinghouse Place
Suite 105
Valencia, CA 91355
USA
Tel: +1 661-493-8480
Email: info@gb labs.com
Web: www.gb labs.com