

INCOM StorEasy® WormAppliance Enterprise S3

Your Private Immutable Cloud—The cloud is coming back to your own data center.

Many companies face the same dilemma: They value the simplicity and scalability of cloud storage solutions like Amazon S3 or Azure Blob, but do not want to lose control over their sensitive data, accept high ongoing costs, or be dependent on internet connections.

The solution: The **INCOM StorEasy® WormAppliance**—the **private immutable cloud** for your own data center.

Thanks to its integrated high-performance S3 server, the WormAppliance becomes a fully-fledged local S3 destination. Existing backup, replication, and archiving solutions can transfer their data to the appliance with virtually no changes. There, the data is not only stored but also **physically** preserved in an **unalterable** state on trueWORM media.

How the WormAppliance Works

The appliance combines three powerful technologies into a single solution:

- > **Local S3 cloud storage** – Compatible with virtually all modern backup and storage solutions
- > **True Immutable Storage** – Physical immutability through genuine WORM technology
- > **Audit-proof long-term archiving** – Automatic migration to optical media for many years or decades

This enables you to meet the highest standards for cyber resilience, data sovereignty, and compliance—without the typical drawbacks of a public cloud solution.

Your Specific Benefits

- > **Maximum data sovereignty** – All data remains within your own infrastructure at all times
- > **Significant cost savings** – No recurring cloud fees per terabyte, no egress costs
- > **Maximum reliability** – Fast local recovery, independent of the internet
- > **Strong ransomware protection** – Data remains available and intact even after an attack or administrator error
- > **Easy integration** – Works as an additional S3 destination for Veeam, Commvault, Rubrik, Microsoft 365 Backup, and many other solutions



Agent / Server

- > **Legal compliance** – Meets GDPR, GoBD, and industry-specific retention requirements
- > **Future-proof hybrid cloud strategy** – Local performance and cloud-like usability in a single system.

Who this solution is particularly well-suited for:

- > Tax advisors, certified public accountants, attorneys, and notaries
- > Medical facilities (medical practices, radiology centers, clinics)
- > Engineering firms, architectural firms, and manufacturing companies
- > Public administrations, municipalities, and municipal utilities
- > Managed service providers and system integrators who want to offer their customers their own private cloud

The Key Difference

While traditional public cloud solutions offer availability but cannot guarantee true immutability, the INCOM WormAppliance delivers both: modern S3 compatibility and physically immutable storage.

Why replicate data to the public cloud when you can get exactly the same technical benefits on-premises, under your full control, and with significantly higher security?

The INCOM StorEasy® WormAppliance is the modern solution to today's challenges: **cyber recovery, data sovereignty, and predictable costs**—all combined in a high-performance appliance.

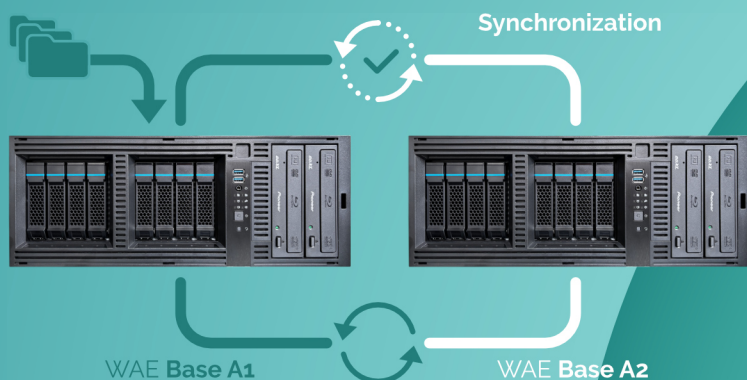
Ready to take the next step?

Request a no-obligation consultation or a live demo of the WormAppliance and see for yourself how simple and secure a local private cloud can be.

Base Unit



Base Unit: **10 TB to 50 TB**



Performance

Capacity

Management
and Redundancy

StorEasy® WormAppliance Enterprise



Pro Expansion Unit:
10 to 50 TB, 70 TB or 110 TB

Fully
expandable

Infinite
capacity

Expansion Unit



trueWORM
external



EPSON and Rimage
Production Systems



LAN

Supported
Systems



HIT Storage Systems
TB to PB



Agent / Server

Cloud Storage S3

LAN

StorEasy® WormAppliance Enterprise



*Store your most important data securely, in-house,
and without relying on the cloud!*

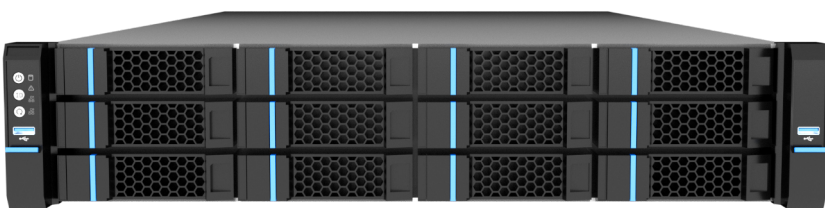
Terabyte - Petabyte - Exabyte



* The graphic may vary depending on the drive configuration

The **StorEasy® WormAppliance Enterprise (WAE)** reliably protects your data against tampering, loss, or theft—thanks to state-of-the-art technology and a unique security concept. Using the proven **4-2-2 principle**, your data is backed up four times across two different storage technologies, with two of those copies stored offline in an air-gapped environment. This ensures your information remains protected even in the event of cyberattacks, hardware failures, or fire hazards.

The integrated **trueWORM technology** ensures that once data is stored, it remains unalterable. Your information is immediately available at any time via the NAS system, while it is simultaneously and automatically archived on optical WORM media. These media can be stored in a separate fire-protected area, providing additional security and flexibility for recovery.



The **StorEasy® WormAppliance Enterprise** integrates seamlessly into any IT environment and offers an **intuitive, platform-independent user interface** that enables management from anywhere, at any time. Automatic notifications alert the administrator as soon as new media needs to be inserted or errors occur. Thanks to the highly redundant architecture, data is always stored in at least two copies, and the system automatically detects hard drive failures, ensuring your data remains available at all times. If hardware fails, defective units can be easily replaced while undamaged data buffers and archive media continue to be used seamlessly.

Practical benefits (soft skills)

- File-based archiving on durable **trueWORM** media (Blu-ray BD-XL) – tamper-proof & ransomware-resistant.
- Archiving controlled by file attributes – flexible & automated.
- Fast read access via NAS cache (read-only) + dual optical backup.
- Complete NAS system with integrated controller – easy integration via NFS/SMB.
- Automatic media copies for offline backup.
- Use of different HDD manufacturers for higher reliability.
- Scalable capacity (desktop to enterprise + expansions).

Technical & Compliance Benefits (Hard Skills)

- Supports DVD/BD/BD-XL and UDF standard.
- Open, standards-based solution (ISO/UDF) – vendor-independent & migration-proof.
- Easy integration into existing storage environments as a NAS.
- Intuitive web GUI – no training required.
- Compatible with common backup tools.
- **trueWORM archiving** – optimally audit-proof (GoBD, GDPR, etc.).
- Checksums (MD5) at the file level for integrity & self-healing.

- Automatic email notifications & status reports
- Pre-installed monitoring software for system setup
- Intuitive graphical web GUI + integrated display
- Configurable log levels & files
- Fully remotely administrable
- **Optional:** Synchronization / Failover / Rackmount

- Base unit: 10–30 TB net
(Desktop: 1–10 TB)
- Hot-swappable HDDs + optional 2×
BD-XL trueWORM drives
- Expansion units:
from 10 to 110 TB per unit
- Network: 2× 1 GbE (10 Gb optional),
DHCP/static IP
- Protocols: NFS / CIFS / S3

- Nearline/Offline: Tera- to Exabyte
- WORM-RAID (multiple)

The **StorEasy® WormAppliance Enterprise (WAE)** combines the highest level of data security, ease of use, scalability, and reliability in a compact, high-performance archiving system. This makes it the perfect solution for companies that want to protect their valuable information reliably over the long term.

Data is backed up four (4) times using two (2) different storage technologies, with two (2) of these copies stored offline as an air-gapped backup.



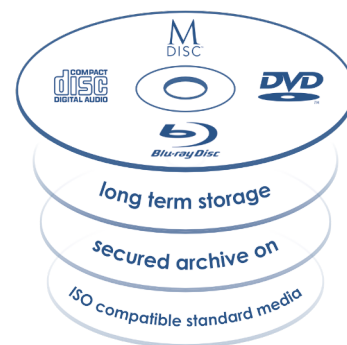
- Conceived and developed in Germany
- Software made in Germany

Service

Minimum 30-year data retention

Renewable indefinitely, with the same terms and conditions!

- Next-Business-Day Exchange Service
- Next-Business-Day On-Site / 24/7 On-Site for up to 10 years or longer
- Rapid Exchange Service
- Remote Maintenance



System Specifications

	INCOM WormArchiver	HIT Storage HMS Serie	HIT Storage HDL Serie
Disc capacity	1	70 to 1750	24 to 10368
Disc Magazine (à 35 Slots)	-	2 to 50	2 to 864
Storage capacity (100 / 128 GB BD)	100 / 128 GB	7 TB to 175 TB	2,4 TB to 1327 TB
Drives	1	2 to 12	2 to 12
Disc Load Time (average)	-	< 3,5 sec. to < 6 sec.	5 sec. to < 10 sec.
MSBF	2,5 Mio.	2,5 Mio.	5 Mio.
Interfaces	LAN, iSCSI	SAS, LAN, NAS	LAN, Mini SAS, SATA

	EPSON Production systems	Rimage Production systems
Number of record holders	2	2 to 4
Total disc capacity	Up to 100	150 to 400
Output tray capacity	5, 50, 100	5, 50, 100
HDD storage	-	-
Interfaces	USB, LAN	USB, LAN

Compatibility Chart

Drives →

Media ↓

	CD	DVD	BD25	BD50	BD100	BD128
CD	✓	✓	✓	✓	✓	✓
DVD		✓	✓	✓	✓	✓
BD25			✓	✓	✓	✓
BD50				✓	✓	✓
BD100					✓	✓
BD128						✓
M-DISC*		✓	✓	✓	✓	✓

i

BD SL 25GB = Single Layer BD-1L
BD DL 50GB = Dual Layer BD-2L
BD TL 100GB = Triple Layer BD-3L
BD QL 128GB = Quadruple Layer BD-4L



Agent / Server

Optional:
Cloud connectivity for uploads and / or downloads

* M-DISC (DVD, BD25, BD100)

StorEasy® WormAppliance Enterprise – Your data. Secure. Everywhere. Forever.

In a world where data is the most valuable asset, there can be no compromises: The StorEasy® WormAppliance Enterprise (WAE) reliably protects your information from tampering, loss, or theft — thanks to state-of-the-art technology and a sophisticated security concept.

Maximum security thanks to the 4-2-2 principle

Our WormAppliance Enterprise operates according to the proven 4-2-2 security concept:



- **Quadruple storage** across two different technologies
- **Two offline copies** as additional air-gap protection

This ensures your data is protected even in the event of cyberattacks, hardware failures, or fire hazards — a comprehensive, worry-free solution for your business information.

trueWORM – Audit-proof & reliable

Our redundant systems ensure that your data remains available at all times:

- Once stored, **cannot be changed**
- **Automatic archiving to optical media**
- Data directly readable via NAS at any time
- Optional: Store media in a separate fire-protected area

Your data is doubly protected: quickly available on the NAS and securely stored on WORM media.

Redundancy & Reliability at the Highest Level

Our redundant systems ensure that your data is **always available**:

- Dual storage in the internal data buffer
- Self-monitoring automatically detects errors
- Immediate notification of the administrator
- Hardware replacement without data loss

Intuitive Management – Anywhere, Anytime

The **StorEasy® WormAppliance Enterprise (WAE)** integrates seamlessly into any IT environment. Thanks to its **platform-independent user interface**, you can manage your archive from anywhere — easily, quickly, and securely.

- Network-based integration (NAS)
- Automatic notifications for media changes or errors
- Graphical interface for easy administration
- Immediate recovery in the event of a hardware failure

Physical protection – security from the outside and inside

- Lockable front door and hard drives
- Locked optical archive drives
- Automatic creation and off-site storage of media copies

Your data remains secure, protected from unauthorized access and physical theft.

Why StorEasy® WormAppliance Enterprise?

- Maximum data security with the 4-2-2 principle
- Audit-proof, tamper-proof, air-gap-ready
- Easy to integrate and manage
- Maximum reliability & redundancy
- Scalable for growing data volumes

StorEasy® WormAppliance Enterprise – the archiving system your data deserves.

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