

BOSTON

Servers · Storage · Solutions



Boston Igloo 4U-24T-Stor

In order to address the continued expansion of business-critical data in small and medium businesses, Open-E and Boston have joined to provide a storage solution dedicated for the SMB market. The Boston Igloo 4U-24T-Stor not only is reliable and field-proven, but it is cost-effective and allows organizations to implement e.g. Virtual Desktop Infrastructure. To even further reduce costs, we offer a special discount for educational institutions.

Unlike traditional solutions, the storage system is VMware Ready and certified for the latest vSphere 6.0. Also, the Boston Igloo 4U-24T-Stor allows for integrating with Citrix and Microsoft Hyper-V. It's a good base system that is very flexible and can be customized according to your needs.

Thanks to a 40GbE network interface card you get the bandwidth and speed required for a high-performing environment. Also, you can choose platinum or titanium power supplies and have the option to use over 80+% efficiency. With Boston Igloo 4U-24T-Stor you can achieve up to 96% power efficiency. Additionally, to meet your virtualization and I/O demands, Boston Igloo 4U-24T-Stor offers tiered storage, hybrid storage and all-flash array.

- **Best price/performance ratio**
- **Up to 96% power efficiency**
- **40 Gb Ethernet expandable to 56 Gb**
- **All flash array /hybrid Storage**

- › **Enhanced storage performance**
- › **Hardware independence**
- › **Flexible scalability**
- › **Optimized for Private Cloud**
- › **Simplified management**
- › **Tiered RAM and SSD Caching**
- › **Data compression and in-line deduplication**
- › **Thin provisioning and unlimited number of Snapshots**

Boston Igloo 4U-24T-Stor

Enhanced storage performance

Nowadays, enterprise storage has to provide big capacity; while also being fast, affordable and include reliable support. Exactly what Boston Igloo 4U-24T-Stor has to offer. Open-E JovianDSS based Boston Igloo 4U-24T-Stor is an innovative Hybrid Storage System that fuses the capacity of HDDs with the performance of SSDs in a single solution that offers high performance while lowering cost. Additionally, by leveraging capacity optimization technologies and advanced tiered SSD and RAM caching, Boston Igloo 4U-24T-Stor provides an overall efficiency boost and increased cache performance. On top of that, powerful tuning tools allow the system to optimize on I/O heavy databases or high throughput video editing equally well, and predefined profiles save annoying testing time.

Hardware independence

Commodity hardware can save you a significant amount of money and allows to customize a server system specific to your needs. But you need to be an expert if you want to create a solution which is perfectly adapted to the requirements of your environment. With Open-E JovianDSS we benefit from the best hardware compatibility on the market and the Boston Igloo 4U-24T-Stor uses hardware components which are ideal for performance, reliability and compatibility. This way we can choose the hardware you need - depending on price, performance, quality and availability - and you won't waste money on unnecessary components. True hardware independence.

Flexible scalability

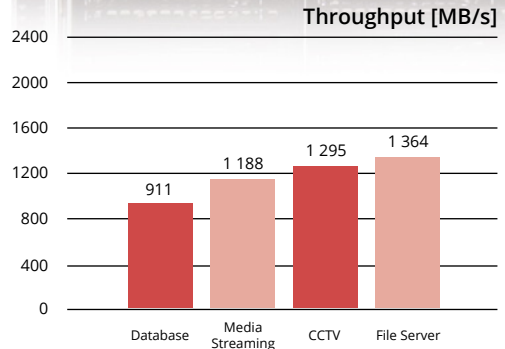
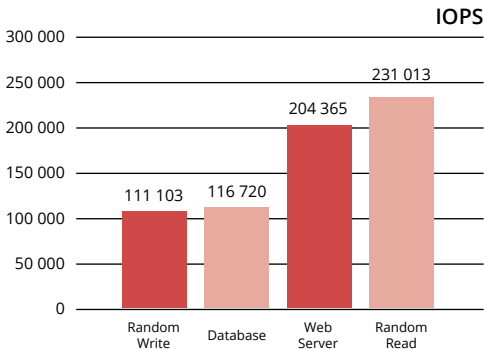
The Boston Igloo 4U-24T-Stor will let you experience unlimited flexibility and minimize unappreciated downtime. Open-E JovianDSS uses a 128-bit file system that includes unlimited snapshots for easy backup, unlimited clones for easy duplication, unlimited capacity with volume sizes up to one ZetaByte, as well as unlimited amount of disks which can be increased on the fly without effort by using thin provisioning. There are no limitations and you may easily control the total cost of ownership and expand your storage infrastructure as data grows.

Optimized for Private Cloud

A private cloud combines flexibility and scalability of a public cloud with the isolation and security required by many large organizations, since the storage system is located at your desired location. It is an ideal solution for service providers (MSPs), independent software vendors (ISVs), and resellers that manage resources for their end-users. With Boston Igloo 4U-24T-Stor you get to design your own redundant environments and can easily distribute access to resources across various teams in your organization. It is a very secure solution that gives you total control over your data and allows you to grow as your company grows.

Simplified management

Managing Open-E JovianDSS and its extensive features is easy and intuitive compared to many competing solutions on the market. The WebGUI provides a quick overview and management of all storage resources and features. After extensive analyses of storage usage and user interaction the clicks per step in each functionality have been reduced to a minimum, i. e. in creating iSCSI targets or when expanding the size of your storage. This way, you are able to quickly and easily manage Boston Igloo 4U-24T-Stor with Open-E JovianDSS, barely involving actions of a storage administrator.



Storage for the SMB market



Thin provisioning and unlimited number of Snapshots

Igloo 4U-24-Stor uses thin provisioning to improve your storage utilization by allocating an exact amount of server space at the required time. You'll eliminate the cost of unused storage space and never again have to pre-allocate storage up front and buy too much hardware. There is no need for evaluating storage requirements and taking the risk of rebuilding the entire system when it runs out of space. Also, every Boston Igloo 4U-24T-Stor allows an unlimited number of snapshots - greatly simplifying backups, replications and data recreation in case of accidental deletes and viruses. Snapshots are a must-have option for effective disaster recovery scenarios. Schedule Snapshots for months, weeks, hours or even minutes. With Boston Igloo 4U-24T-Stor it is easy to manage storage capacity and set notifications when physical space shrinks.

Tiered RAM and SSD Cache

Open-E JovianDSS based Boston Igloo 4U-24T-Stor works as a tiered storage environment - dramatically speeding up access to frequently accessed files. It uses a caching algorithm to cache "often used" and "recently used" data separately, and provides the best performance for your storage by tiering hot data between RAM and SSD Cache. In Boston Igloo 4U-24T-Stor data is always saved on HDDs and only Hot Data is stored in RAM and SSD to ensure data safety and increase performance.

Data compression and in-line deduplication

Boston Igloo 4U-24T-Stor offers data compression for minimizing storage capacity usage, ultimately boosting performance and taking less space on your storage. Find resource-friendly compression protocols (lz4) with low system resource utilization at medium compression rates, but also protocols that are able to achieve very high rates for archiving or backup (as gzip-9). The in-line deduplication feature in Boston Igloo 4U-24T-Stor removes redundant data and minimizes storage capacity usage. The software checks each block for redundancy in the system and if it finds a match - the new block isn't written; instead, a shortcut leading to the original block is created. Such a system can reach a deduplication ratio of 3:1 or more, which means that if you place 3 TB of data it will only use 1TB of physical disk space. This feature is especially interesting for highly repetitive data, i.e. in VDI, server virtualization or backup, where much higher deduplication ratios can be reached.

Boston Igloo 4U-24-Stor

Leader in Technology – Made in Germany

The 4U Supermicro chassis is equipped with 24 x hard-drive bays - 21 are populated with 2.0TB 7200K RPM SAS HDDs for data storage; complimented by 1 x 400GB SanDisk Enterprise SSD for an L2ARC read cache and 2 x 200GB SanDisk Enterprise Endurance SSDs used in a mirror configuration as a ZIL write cache.

Hardware information

	Default configuration	Options
CPU	2 x Intel® Xeon® Processor E5-2630 v3 2.40GHz	E5-2600v3 Series
RAM	96 GB DDR4 2133 MHz	Max: 1,5TB
RAW Capacity	22 TB	Max: 240 TB
Read Cache	400 GB	Max: 1600GB
Write Log	200 GB (redundant)	Max: 800 GB
Hard drive Interface	SAS6	-
Network Interface	4 x 10 GbE	-
Form Factor	4U Rack (17.2" x 26.5" x 7.0")	-
Weight	46 Kg	-
Power	2 x 1280 W 80 Plus Platinum Level certified	-
Fan	3x 80mm hot-swap redundant PWM, 2x 80mm rear hot-swap exhaust PWM	-

About Boston Server & Solutions GmbH

Boston is an international specialist hardware solutions provider headquartered in the UK with subsidiaries in Germany, India, Australia and the US who work with our partners to provide turn-key systems for various markets and applications.

We operate heavily within a number of different industries; this means we are uniquely placed to offer you and your customers the latest in technology for testing real world applications – giving you the leverage over your competition.

About Open-E

Open-E is a well-established developer of IP-based storage management software. Open-E JovianDSS and Open-E DSS V7 are robust, award-winning enterprise storage applications which offer excellent compatibility with industry standards, and are the easiest to use and manage. Additionally, they are some of the most stable solutions on the market and undisputed price/performance leaders. Open-E accounts for over 27,000 installations world-wide and has received numerous industry awards and recognition. Thanks to our reputation, experience and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies.

For further information about Open-E, its products and partners, visit <http://www.open-e.com/>

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About the Open-E JovianDSS Server Certification

Open-E JovianDSS delivers software-defined storage which results in a wide variety of different hardware requirements such as performance range, capacity capability, and connectivity. To ensure compatibility and robust storage environments, all selected partners offer storage systems which are tested, benchmarked and certified by Open-E. This way, customers are able to use solutions that require exceptional security and redundancy, without compromising performance.