



## BigFoot Storage XXL

The BigFoot Storage XXL, based on Open-E JovianDSS, offers high performing software-defined storage aimed at Data Centers and data-rich large enterprises. This high-density platform enables greater efficiency, lowers TCO and allows you to rapidly deploy enormous quantities of storage capacity to keep up with your business needs.

Most importantly, BigFoot Storage XXL offers 6 SSDs and 48 disk spinners in a single chassis, which gives you more bandwidth and IOPS. RAM can be expanded up to 512 GB. Customers can reach higher capacities and even further increase speed through caching. Additionally, it is one of the shortest chassis in the world - with a depth of only 725 mm. Also, servers are custom-made in Germany.

Recommended for:

- Data Centers
- HPC service providers
- Scale-out cloud customers
- Large storage pools
- VDI
- Backup
- Big Data
- Webhost and Service Providers

Open-E and Rausch Netzwerktechnik have been strategic partners for over 7 years. Thanks to Rausch's certified BigFoot Storage XXL and the alternative BigFoot Storage Flash for extreme IO loads, Open-E JovianDSS can be used in datacenters and for large implementations.

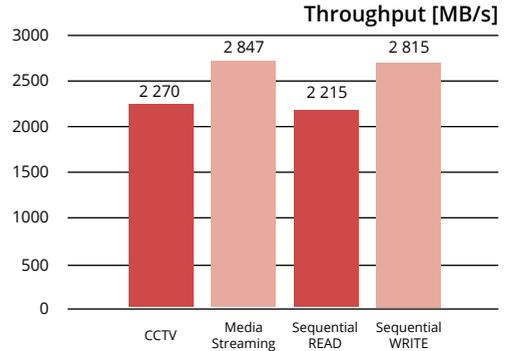
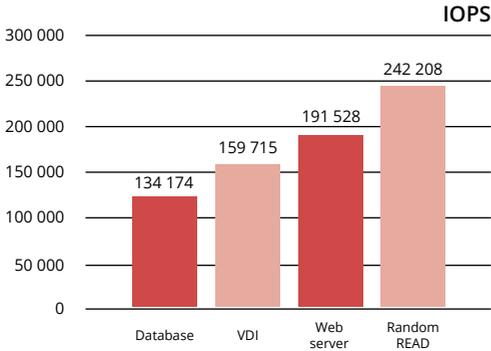
Apart from the great hardware and software, successful management of a storage environment depends on reliable technical support at every stage: from designing a solution and planning its implementation to deployment and maintenance. Rausch guarantees that all of your support expectations are met, thanks to our experienced team of technical engineers who are certified and trained for Open-E JovianDSS. The BigFoot Storage XXL offers on-site service for hardware in Europe, Asia-Pacific and USA and 24/7 software support.



- Guaranteed data protection
- Data compression / In-line data deduplication
- Enhanced storage performance
- Flexible scalability
- Simplified management
- Data integrity check
- Unlimited number of snapshots and clones
- Tiered RAM and SSD Cache

# BigFoot Storage XXL

BigFoot Storage XXL Large is a combined solution with enough space for server and storage, fitting all requirements and every budget – not only for businesses, but also for datacenters! From single socket quad-core to dual socket 20-core-system: Rausch Netzwerktechnik makes it possible. You will get the widest space for your data and benefit from lower costs, higher quality and larger flexibility.



## Optimized for data centers

BigFoot Storage XXL is optimized for the modern data center and ready for compute-intensive applications that involve big data, intensive virtualization workloads and higher-density server configurations. The server allows administrators for intuitive management of storage infrastructures and maintaining continuous operations during updates or refreshes. By choosing BigFoot Storage XXL you benefit from flexible CPU power, networks running 1, 10 or 40Gb Ethernet, as well as from Rausch's knowledge and experience in BigFoot Storage and developing servers specialized for data centers.

## 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 BigFoot Storage XXL 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.

## Guaranteed data protection

Data is your most important resource. This is why the JovianDSS based BigFoot Storage XXL includes several mechanisms for data protection. Automatic and scheduled multi-layer data integrity checks ensure data consistency, while unlimited Snapshots and Clones make it easy to implement a disaster protection strategy and to instantly roll back to a previous point-in-time. At the same time a scheduled self-healing mechanism fixes malfunctions and automatically restores full data redundancy in the system. Even when a disk fails, the software-based spare function offers one disk to several RAID arrays, saving you money on extra hardware without compromising data safety.

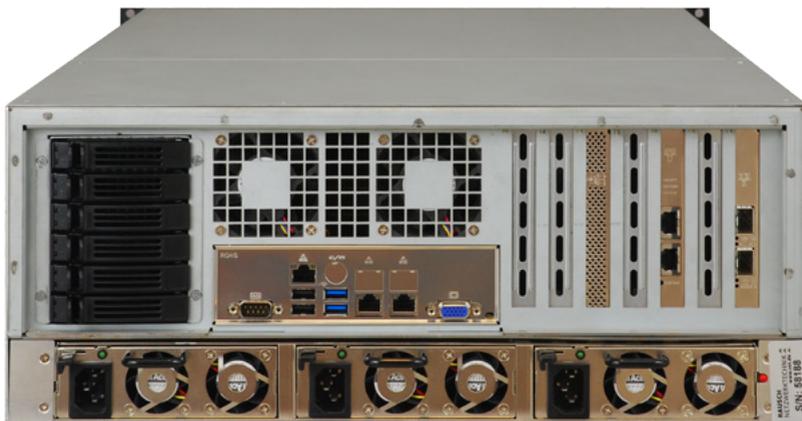
## Flexible scalability

The BigFoot Storage XXL enables you to experience unlimited flexibility and to minimize the 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 zettabyte, as well as an unlimited amount of disks which can be increased on the fly without effort by using thin provisioning. There are no limitations and you can easily control the total cost of ownership and expand your storage infrastructure as your data grows.



# for more power and bigger density

The high-quality data center solution with BigFoot Storage XXLarge comes in a high-density 4U chassis! It can be used as cloud storage as well as database, enterprise or near-line storage. Other typical usages for BigFoot Storage XXLarge are virtual tape libraries, medical imaging and digital content delivery. Last but not least, it can brace the highest loads as Tier 1 storage with high-performance SSD-caching in just one chassis.



## Data integrity check

The BigFoot Storage XXL storage system effectively detects data corruption, as even minor integrity violations could cause loss of data. BigFoot Storage XXL ensures reliability by checksumming individual blocks of data and once faulty blocks have been detected – they are automatically rewritten. If the same error is found several times - the data blocks are moved to different parts of the HDD. Each read/write is checked automatically plus you can schedule to perform checks on not accessed blocks. All actions are done in atomic writes to ensure consistency of your data and to reduce data loss, even during power cuts.

## Unlimited number of snapshots and clones

Every JovianDSS based BigFoot Storage XXL allows an unlimited number of snapshots and clones - greatly simplifying back-ups, replications and data recreation in case of accidental deletes and viruses. Snapshots are read-only points in time and allow for easy roll-back. They are a must-have option for effective disaster recovery scenarios and in BigFoot Storage XXL you may schedule snapshots for months, weeks, hours or even minutes. Whereas, a clone is a writable copy of a snapshot and allows to easily duplicate virtual machines and scale out for virtual networks - instantly and without duplicating data.

## Tiered RAM and SSD cache

JovianDSS based BigFoot Storage XXL 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 BigFoot Storage XXL 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

The JovianDSS based BigFoot Storage XXL offers data compression for minimizing your storage capacity usage. Smaller data blocks means that the system can read and write quicker, ultimately boosting performance and taking less space on your storage. In BigFoot Storage XXL You will 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). Compression in combination with de-duplication, virtualization or high availability solutions further reduce acquisition costs, power and cooling costs, and rack space throughout system lifecycle.

# Details

## Hardware information:

	Default configuration	Options
CPU	2 x Intel® Xeon® Processor E5-2630 v3 2.40GHz	Every Intel® Xeon® Processor E5-2600v3
RAM	128GB DDR4 2133MHz	Up to 512GB
RAW capacity	192TB	Up to 384TB
Read cache	3 200GB	Up to 8 000GB
Write log	160GB (redundant)	Up to 1 600GB
Hard drive interface	SAS 6Gbit	SAS 12Gb/s
Network interface	2 x 10GbE (fibre) 2 x 10GbE (copper)	2x 40Gb (certified separately) Infiniband QDR or FDR (certified separately)
Form factor	4U Rack (7" x 19" x 28.5") 48 x 3.5" HDD hot swappable 6 x 2,5" SSD hot swappable	-
Weight	67kg	-
Power	1.600W red. 2+1	-
Power consumption	596W (idle) 824W (load)	-
Fan	6x 120mm 4100 RPM PWM fans 2x 60mm 4250 RPM PWN fans	-

## About Rausch Netzwerktechnik

Since 1998, Rausch Netzwerktechnik has been working as a distributor of individual and standard server and storage systems for data center and can relate on more than 250,000 systems in data centers across the globe. With a wide range of high-quality products for server, storage and cloud computing, Rausch offers the perfect solutions for your business. Beginning with the development and manufacture followed by delivery, installation and maintenance – Rausch Netzwerktechnik is at your service.

## 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/>

## Partner Contact

### Rausch Netzwerktechnik GmbH

Englerstraße 26  
76275 Ettlingen

Tel.: +49 (0)7243 - 59290

Email: [info@rnt.de](mailto:info@rnt.de)

Website: [www.rnt.de](http://www.rnt.de)

## 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.