

SANStor™ FC RAID Array

When Connectivity,
Performance and Redundancy
Are Mission-Critical

IMPEX Technologies' SANStor™ FC RAID Array's scalable modular architecture reduces your cost of ownership, while optimizing performance and storage assets.



SANStor™ FC RAID Array, front view

IMPEX SANStor™ FC RAID ARRAY

Product Highlights:

High Performance SAN Ready RAID Array:

- For storage consolidation and clustering applications
- 100,000 IOPS and 350MB/sec sequential RAID 5 reads
- Scales to 112 drives and up to 16.4TB
- Supports 36GB, 73GB and 146GB Fibre Channel Drives
- 2Gbps Fibre Channel host and device attachments
- Robust 600MHz RISC processor I/O engine
- Redundant, hot swappable components help ensure high availability
- Upto 1GB of mirrored data cache for data protection
- Remote management capability via Ethernet

Optional Features:

Storage Virtualization

The optional SANStor™ Storage Appliance creates virtual disk pools from multiple disk arrays that allow you to add, upgrade, reassign and replicate disk storage on demand without rebooting servers or incurring downtime. This is an ideal solution for managing multiple disk arrays in a mixed OS environment.

Data Replication, Mirroring and Snapshots

The optional SANStor™ Storage Appliance offers data replication, mirroring and snapshot capabilities for your business continuity/disaster recovery needs. If your business requires remote data replication for disaster recovery and/or point-in-time snapshot data copies for fast backup and restore, IMPEX offers you a non-proprietary solution that is surprisingly affordable.

The **SANStor™ Fibre Channel RAID Array** can be initially direct attached with up to four hosts and ultimately scale into an enterprise-class SAN. With incrementally increased connectivity, performance, capacity and redundancy - the SANStor™ FC RAID Array is field upgradeable, and able to attach additional hosts, RAID Controllers, disk expansion enclosures and disk drives.

Full Spectrum of Support Services

Our services include assessment, custom design, expert integration and training - all supported by on-site service contracts. IMPEXCare Silver, Gold and Platinum services include e-mail and phone support, parts replacement, software updates and on-site service. As a result, your staff can spend more time on productive operations and less time on support issues.



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About IMPEX Technologies, Inc.

Founded in 1992, IMPEX Technologies, Inc. specializes in custom technology solutions that reduce costs, manage complexity and protect valuable information. With a wealth of in-house expertise and a network of marquee partners, IMPEX delivers end-to-end solutions through a combination of services, hardware and software. The company's clientele includes leading businesses and organizations from a variety market sectors, including finance, legal, government, education, media, telecommunications and healthcare.

IMPEX is headquartered in Torrance, Calif.



SANStor™ FC RAID Array, rear view

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SAN Verification Program

IMPEX integrates the SANStor™ FC RAID Array with best-of-breed partner products who provide Fibre Channel HBAs, switches, routers and tape library components. Each partner's products are tested in-house for interoperability with the SANStor Fibre Channel RAID Arrays in multi-host, mixed OS environments to ensure all components work together. The SANStor™ solution is also tested for interoperability with software from leading software ISVs including Veritas, Computer Associates, Legato. IMPEX acts as the single point of contact for the entire solution rather than having customers seek support from individual component manufacturers

Technical Specifications

Enclosure

- High drive packing density (16 drives in 3U/5.25*)
- Supports FC-AL 2 at 1Gb or 2Gb/s
- Drive cooling provided by 4 Centrifugal blowers
- FCC class A, UL, CUL and CE mark
- Dual PSUs with Power Factor Correction & auto arranging
- -48VDC PSU option for Telco applications
- No active data path components on the midplane
- Operator panel with Enclosure ID selection, status indicators and configuration switches
- Fault indicators and audible alarm for power, cooling, system defaults, loopspeed and hub configuration
- Suitable for standard 19" rack or Telco style center of gravity mounting
- Deskside Tower options available
- All components hot swap, concurrently maintainable
- Dual redundant feature select module (see below)

Feature Modules

- All modules incorporate enclosure management and status reporting via SES (SCSI Enclosure Services)
- Dual redundant master/slave SES with two I/O modules installed
- FRU Fault indicators

RAID Feature Modules

- 2Gb 2x2 RAID controller (one or two)
 - RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD
 - 2 x SFP LC Optical or Cu* 2Gb Interface
 - 2 x 1Gb or 2Gb/s Drive loops
 - 350+ MB/s performance
 - Max 112 drives per system
 - Up to 16.4 TB capacity with 146GB drives (15.3TB RAID 5 protected)
- 10/100 Ethernet outbound management port

Specifications

Height: 3U (5.25in)
Width: 19inch IEC Rack compliant
Depth: JBOD and 1Gb RAID 500mm, 2Gb RAID 600mm (max)
Weight: 35kg
Power: Max 450W
Voltage: 110 to 260v AC Single Phase 48-62 Hz or -48VDC
Acoustics: Less than 6.0 B LwA @ 20(d)C
Temperature Operational: 5 to 40(d)C, 20 to 80% humidity
Altitude: 0 to 3048m (0 to 10,000 ft)
Operational Shock: 5g 10ms 1/2 Sine
Operational Vibration: -0.21 grms 2-200Hz Random
Non-Op Shock: 30g 10ms 1/2 Sine
Non-Op Vibration: -1.04 grms 2-200Hz Random
Relocation Vibration: -0.3g 2-200Hz Sine
*Copper SFP (HSSDC-2) connectors when available.