

SR-1201-MYFF

x y r a t e x

Salient FC-AL to FC-AL RAID Array: rack mount or tower enclosure

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- Quad Host FC connection option with FF2
- Second RAID controller option allows dual active, hot failover operation
- 4 loops of FC-AL disk drives
- Up to 90 disk drives per redundant loop (180 per RAID subsystem) provides over 32 Terabyte capacity †
- Two hot pluggable 550W PSU's and fans offering full redundancy
- Hot pluggable disk drives, PSUs, fans, I/O modules, RAID modules & ops panel
- Quad or Dual loop FC-AL host attachment; optional redundant FC Hub function provides 200MB/s bandwidth, or 400MB/s with Quad loops on the FF2 without hub functionality
- Supports SAN Mapping to control access of Servers to LUN's in the array
- UPS and Remote power control Support
- Configuration Management utilities
- Exceptional cooling and zoned RFI shielding
- Hot-pluggable, lockable FC-AL disk drive carriers using SCA-2 connector
- Disk drive operation and fault status LEDs on each carrier
- Enclosure services monitoring of power, cooling and drive bays
- SES (SFF 8067) compliant enclosure status reporting
- Copper, HSSDC or Fibre (via MIA) connection options
- FCC class A , CISPR-A, CE (IEC950/EN60951), UL, CUL
- Optional Distributed Array Manager configurator for Windows™ NT and 2000, Solaris, Linux, Irix and AIX operating systems

Product Overview

Salient is an innovative family of high performance, modular and scaleable data storage products which supports the latest data storage technologies available, such as 15,000 rpm drives, FC-AL, Ultra (1, 2 & 160) SCSI and SSA. The construction method is based on aluminum extrusions, providing extraordinary rigidity and conductive cooling.

The SR-1201-MYFF is a 19" rack mountable, twelve disk, Fibre Channel Arbitrated Loop storage subsystem, with one or two RAID controllers. Supporting up to four independent FC-AL host channels and four FC-AL drive loops, the system is ideal for bandwidth intensive applications. With fully integrated, platform independent, Mylex SAN Array Pro FF or SAN Array Pro FF2 controllers providing 2 or 4 Host FC Ports respectively, sustained performance can achieve 380MB/s. Up to 180 drives may be supported on the four FC-AL drive loops,

for a maximum total capacity of over 32 Terabytes (16TB to 30TB fault tolerant).

Hot pluggable power supplies, fans, loop resiliency circuits, data storage devices and RAID controllers provide very high levels of data availability. The enclosure, designed for maximum flexibility, allows modification of the size of the system and the interface features to meet specific customer needs. Molded plastic inserts can be replaced or color-coded to provide an identity unique to the customer.

Features

- Supports latest storage technologies including 15,000 rpm and 180GB drives
- High level of disk drive packaging density - 12 disks in 7" (4U) rack space
- Cost effective, modular and flexible design allowing customization
- High performance RAID (levels 0, 1, 0+1, 3, 5, 30, 50) controller mounts in rear

† Requires 7.x Controller firmware

Technical Specification

General Description

Product code: SR-1201-MYFF

Number of SCSI drives supported: 12 Per enclosure

External interface: FC-AL copper: 2 or 4 x HSSDCconnectors
FC-AL optical, dual loop: via media adapters

RAID controllers (FF2 or FF): Quad or dual loop FC-AL host, four FC-AL disk drive loops: 1 or 2; if second is installed, dual active, hot failover, cache coherent, hot swap

Device types supported: 4.5, 9.1, 18, 36, 73 & 146GB FC-AL drives, 7,200, 10,000 or 15,000 RPM; SCA-2 40 pin connectors

Chassis & drive carrier material: Extruded aluminum

Hot-pluggable components: PSU/Fans, disk drive carriers, loop resiliency circuits, RAID controllers, Host Hubs & ops panel

Dimensions	Tower	Rack
Height	22.4" (570 mm)	7" (177 mm)
Width	11.5" (293 mm)	17.5" (444 mm)
Depth	23.5" (598 mm)	23" (586 mm)

Weight	Tower	Rack
Max configuration	113.3 lb. (51.5 kg)	99 lb. (45 kg)
Empty subsystem	55 lb. (25 kg)	28.6 lb. (13 kg)
Carrier inc. 1.625" drive	2.64 lb. (1.2 kg)	2.64 lb. (1.2 kg)
PSU/fan module	8.8 lb. (4 kg)	8.8 lb. (4 kg)

Power	550W	450W
Voltage	Nominal 110/230 V AC PFC and autoranging	Nominal 110/230 V AC switched
Frequency	47-63 Hz	47-63 Hz
Power consumption	(max) 750 VA	800 VA
Operational currents	(max) 6.5A @ 110 V	5.2A @ 110V
Inrush current (25°C cold start 1 PSU)	50 A @ 260 VAC	40/80 A @ 110/230 VAC

Environmental Characteristics

Temperature and humidity

Operational Temp: 10° C to 40° C;
RH: 20% to 80%, non condensing.
Max wet bulb: 23° C

Non-operational Temp: 0° C to 50° C;
RH: 8% to 80%, non condensing

Shipping Temp: -20° C to +60° C;
RH: 5% to 100%, non condensing

Altitude 0 to 7000 feet (0 to 2133m)

Operational shock Vertical axis 5g peak 1/2 sine, 10ms

Operational vibration Spectrum available on request

Shipping shock Packaging dependent

Acoustics Free standing subsystem < 6.8 Bels

Orientation 19" rack mount (4 x EIA Units) to IEC 297
Tower configuration

RAID Features

- RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50, and JBOD
- Transparent disk drive rebuild
- Online RAID expansion (M.O.R.E.)
- Up to 32MB I/O request sizes
- Variable stripe size per controller
- Variable cache line size per controller
- Mirrored cache
- Drive roaming during power off
- Cache coherency
- Active-Active operation
- Transparent failover
- Automatic error recovery
- Write through, write back & read-ahead support per logical device
- Automatic detection of failed drives
- Automatic rebuild of hot spare drive
- Hot-drive swapping support
- Clustering support—Windows NT and UNIX
- SAN mapping-server to LUN mapping

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