

# SR-1294-MYFL

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## **Salient FC-AL attached Ultra 2 SCSI RAID Array: rack mount or tower enclosure**

Salient is an innovative family of high performance, modular and scaleable data storage products which supports the latest data storage technologies available, such as 10,000 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-1294-MYFL is a 19" rack mountable, nine disk, FC-AL to LVDS RAID storage subsystem, with one or two RAID controllers. It supports two or three disk drives on each of four internal LVDS buses. Hot pluggable power supplies, fans, loop resiliency circuits, data storage devices and RAID controllers provide very high levels of data availability.

For expansion of drive capacity, the SS-1200-LVDS or SS-1204-LVDS, 19" rack mountable, twelve disk, Ultra-2-SCSI (LVDS) JBOD is used. When configured with the SR-1294-MYFL, the SS-1200-LVDS or SS-1204-LVDS allows up to 11 disk drives on each of the four LVDS RAID buses, for a maximum total capacity of over 2TB with 73GB drives).

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 10,000 rpm and 146GB drives
- Up to 9 Ultra-2-SCSI (LVDS) drives in 7" (4U) rack space, attached via FC-AL
- Cost effective, modular and flexible design allowing customization
- Hot pluggable disk drives, PSUs, fans, IO modules, RAID modules & ops panel
- Fault tolerant PSUs, fans & RAID modules
- High performance FC-AL to LVDS RAID (levels 0, 1, 3 & 5) controller mounts in rear
- Second RAID controller option allows dual active, hot failover operation
- Daisy chain capability of the 4 LVDS drive buses provides over 800 GB capacity
- Very high performance, hot pluggable FC-AL to LVDS RAID controller (1 or 2)
- 4 LVDS drive channels
- Up to 8 disk drives plus a global hot spare in base system
- Two hot pluggable 550W PSUs and fans offering full redundancy, power factor correction and Autoranging
- Dual loop FC-AL host attachment; optional redundant loop resiliency circuits
- Exceptional cooling and zoned RFI shielding
- Hot-pluggable, lockable LVDS drive carriers using industry standard SCA-2 connector
- Disk drive operation and fault status LEDs on each carrier
- Enclosure services monitoring of power, cooling and drive bays standard
- SAF-TE enclosure status reporting
- Copper or Fibre connection options
- FCC class A , CISPR-A, CE (IEC950/EN60951), UL, cUL



# Technical Specification

## General Description

**Product code** SR-1294-MYFL

### Number of LVDS drives supported

9 Per enclosure (8 + global hot spare)

33 total (32 + global hot spare)

### External interface

*FC-AL copper, dual loop:* 2 x HSSDC connectors per host loop

*FC-AL optical, dual loop:* via media interface adapters

### RAID controllers

*Dual loop FC-AL host, four LVDS disk drive buses:* One or two; if second is installed, dual active, hot failover, cache coherent, hot swappable.

### Device types supported

9.1, 18, 36, 73 & 146GB LVDS disk drives, 7,200 or 10,000 RPM; SCA-2 80 pin connectors

### Chassis & drive carrier material

Extruded aluminum

### Hot-pluggable components

PSU/Fans, disk drive carriers, loop resiliency circuits, RAID controllers & operator panel

## Dimensions

	Tower	Rack
<b>Height</b>	22.4" (570 mm)	7" (177 mm)
<b>Width</b>	11.5" (293 mm)	17.5" (444 mm)
<b>Depth</b>	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

<b>Voltage</b>	Nominal 100/260 V AC PFC and autoranging	
<b>Frequency</b>	47-63 Hz	
<b>Power consumption</b>	750 VA (max)	
<b>Operational currents</b>	6.5A peak @ 110 V (max)	
<b>Inrush current</b>	25°C cold start 1 PSU	50 A @ 260 VAC

## Environmental Characteristics

### Temperature and humidity

<i>Operational</i>	Temp: 10° C to 40° C; RH: 20% to 80%, non condensing Max wet bulb: 23° C
<i>Non-operational</i>	Temp: 0° C to 50° C; RH: 8% to 80%, non condensing
<i>Shipping</i>	Temp:-20° C to +60° C; RH: 5% to 100%, non condensing
<b>Altitude</b>	0 to 7000 feet (0 to 2133m)
<b>Operational shock</b>	Vertical axis 5g peak 1/2 sine, 10ms
<b>Operational vibration</b>	Spectrum available on request
<b>Shipping shock</b>	Packaging dependent
<b>Acoustics</b>	Free standing subsystem < 6.8 Bels
<b>Orientation</b>	19" rack mount (4 x EIA Units) to IEC 297 Tower configuration

\* Initial release will only support 8 drives per bus (with maximum configuration of 33 drives).

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