

# SS-1200-SCSI

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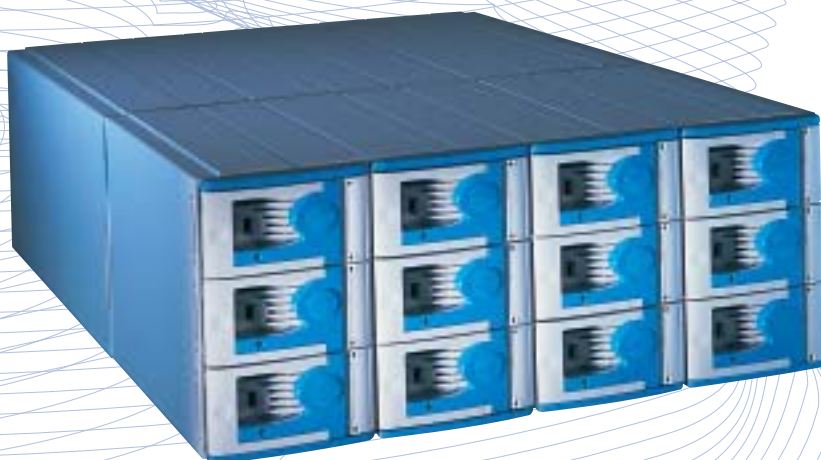
## Salient SCSI Array: rack mount or tower enclosure

Salient is an innovative family of high performance, modular and scalable 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 aluminium extrusions, providing extraordinary rigidity and conductive cooling.

Building on over twenty-five years experience in the disk drive and subsystem design and manufacturing business, a Salient solution will provide unprecedented levels of modular flexibility in form and function, with no compromise in performance.

The SS-1200-SCSI is a 19" rack mountable, twelve disk, SCSI storage subsystem which has two buses of six disk drives. These internal buses are Single Ended (SE) and are Ultra-1-SCSI capable. Hot pluggable power supplies, fans and disk drives provide very high levels of data availability. For complete flexibility, a number of SCSI I/O converter module options maybe installed in the rear to provide high performance RAID capabilities, attach the subsystem via Single Ended or Differential Wide Ultra-1-SCSI, or via Fast and Wide SCSI host connections.

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

- Plug in RAID 0, 1, 3 & 5 controller options
- Supports latest storage technologies including 15,000 rpm and 180GB drives
- High level of drive packaging density - 12 1" or 1.625" high disks in 7" (4U) rack space
- Cost effective, modular and flexible design allowing customization
- Hot pluggable disk drives, power supplies, fans and operator panel
- Industry standard 19" rack mount design with free standing tower option
- Two hot pluggable PSUs and fans offering full redundancy
- Modular Ultra-SCSI I/O modules with bus isolation and maximum Ultra-SCSI cable lengths & fan out
- High performance RAID controller option (levels 0, 1, 3 and 5) supporting either Single Ended or Differential Wide Ultra-1-SCSI connections
- Exceptional cooling and zoned RFI shielding
- Hot-pluggable, lockable SCSI 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
- SAF-TE compliant enclosure status reporting
- FCC class A, CISPR-A, CE (IEC950/EN60951), UL, cUL
- Manufactured in a world class ISO 9001 facility

# Technical Specification

## General Description

<b>Product code</b>	SS-1200-SCSI	
<b>Number of SCSI drives supported</b>	12 Per enclosure, (6 per bus)	
<b>External interface</b>	FW SE I/O module (JBOD)	2 x VHDCI SCSI connectors
	Dual Ultra-SCSI I/O module, SE or Differential (JBOD)	4 x VHDCI SCSI connectors
<b>RAID options</b>	SE or Differential RAID module	2 x VHDCI SCSI connectors
<b>Device types supported</b>	4.5, 9.1, 18, 36, 73, 146 & 180GB SCSI disk drives, 7,200, 10,000 & 15,000 RPM; SCA-2 80 pin connectors	
<b>Chassis &amp; drive carrier material</b>	Extruded aluminum	
<b>Hot-pluggable components</b>	PSU/Fans, disk drive carriers, and operator panel	

Dimensions	Tower	Rack	Power	550W	450W
<b>Height</b>	22.4" (570 mm)	7" (177 mm)	<b>Voltage</b>	Nominal	Nominal
<b>Width</b>	11.5" (293 mm)	17.5" (444 mm)		110/230 V AC	110/230 V AC
<b>Depth</b>	23.5" (598 mm)	23" (586 mm)		PFC and autoranging	switched
			<b>Frequency</b>	47-63 Hz	47-63 Hz
<b>Weight</b>	<b>Tower</b>	<b>Rack</b>	<b>Power consumption</b>	750 VA (max)	800 VA (max)
Max configuration	113.3 lb. (51.5 kg)	99 lb. (45 kg)	<b>Operational currents</b> (max)	6.5A @ 110 V	5.2A @ 110 V
Empty subsystem	55 lb. (25 kg)	28.6 lb. (13 kg)	<b>Inrush current</b>		
Drive carrier including 1.625" disk drive	2.64 lb. (1.2 kg)	2.64 lb. (1.2 kg)	(25°C cold start 1 PSU)	50 A @ 260 VAC	40/80 A @ 110/230 VAC
PSU/fan module	8.8 lb. (4 kg)	8.8 lb. (4 kg)			

## Environmental Characteristics

Temperature and humidity		Altitude	Operational shock
<i>Operational</i>	Temp: 10° C to 40° C; RH: 20% to 80%, non condensing. Max wet bulb: 23° C	0 to 7000 feet (0 to 2133m)	Vertical axis 5g peak 1/2 sine, 10ms
<i>Non-operational</i>	Temp: 0° C to 50° C; RH: 8% to 80%, non condensing		<b>Operational vibration</b> Spectrum available on request
<i>Shipping</i>	Temp:-20° C to +60° C; RH: 5% to 100%, non condensing		<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

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P/N 19957-08B