LEGASYS™

I N T E R N A T I O N A L

At Legasys International, our peripheral vision extends beyond the sale to excellence in

Expand

product quality, service and ongoing support. We offer a full range of storage and memory

Your

upgrades for all of the Silicon Graphics Workstations, including Indigo, Indigo2, Indigo2

Limits

IMPACT, Indy, Personal Iris, Iris Crimson, Power Series, Onyx, and Challenge Systems.

SiliconGraphics™
Authorized Independent Hardware Developer

The Legasys Story

From our headquarters in Broomfield, in the heart of Colorado's high-tech corridor, Legasys International, Inc. supplies peripheral products to the world. We've made friends around the globe by devoting ourselves to a few timeless ideas — great customer service, cutting-edge products, competitive prices. Our business vision is as clear as the mountain air to the west of us: Treat people well, and they will come back.

SiliconGraphics™
Authorized Independent Hardware Developer

LEGASYS™
INTERNATIONAL

TABLE OF CONTENTS

Catalog Color Code	
Indy	●
Challenge S	●
Challenge/Onyx	●
Indigo	●
Indigo2	●
Indigo2 IMPACT	●

Description Code	
Fast Wide Differential SCSI Interface	F/W/D
Single Ended SCSI Interface	S/E
Differential SCSI Interface	Differential

THE PERIPHERAL VISION OF THE FUTURE

LEGASYS™
INTERNATIONAL

The Legasys Way ~ Keeping Promises.

Superior service

At LEGASYS, when we look to the future, we look back to the time when customer service was supreme. Our products are all equipped with a promise: We'll be there when you need us. No hassles, no questions, no downtime. Our trained technical support team is always a simple toll-free call away, ready to work with you. Our technicians specialize in products compatible with the entire family of Silicon Graphics workstations. We know the ins and outs of the cables, terminators and mounting brackets required for your workstations.

Maximum warranties

All Legasys products come with solid warranties, including a lifetime guarantee on all our memory upgrades. In all cases, we pass along to our customers the maximum warranty offered by the manufacturer. Should a problem arise, we offer quick replacement of products under warranty. We'll ship you a new replacement within 48 hours, for the first full year following your purchase.

Rapid delivery

We understand that you can't wait a month, or even weeks, for many peripheral products. And we understand that you don't want to pay to have stock sitting around for the day you might need it. That's why we offer rapid delivery, via Federal Express, from our expansive inventory. We'll ship your products within 48 hours – or less. If you're facing an emergency, we'll do our best to ship your order the day we receive it.

Reliable products

At Legasys, we know that dead-on-arrival products are bad news for you and bad business for us. To ensure reliability, we rigorously test each product before we send it out the door. To ward off damage during shipment, we pack our products in plastic foam molded to their shapes – rather than the plastic peanuts used by some of our competitors. We believe all products should work flawlessly right out of the box. We think you'll agree.

Competitive prices

So what's the bottom line? Cost savings. In many cases, our products are manufactured by the same companies that supply Silicon Graphics and other workstation vendors. The key difference is the price. To the value-added reseller, the use of Legasys products can mean a boost to profits without a sacrifice of quality. And, like icing on a cake, our products match the colors of SGI workstations, leaving end users with the comfortable feeling that they are using one product.

MEMORY UPGRADES

Indy

Part #	Description	Specifications
LS4416	16 MB Memory Upgrade	60-70 ns Speed, Four 4 MB SIMM Modules
LS4432	32 MB Memory Upgrade	60-70 ns Speed, Four 8 MB SIMM Modules
LS4464	64 MB Memory Upgrade	60-70 ns Speed, Four 16 MB SIMM Modules
LS4128	128 MB Memory Upgrade	60-70 ns Speed, Four 32 MB SIMM Modules

Indigo2 / Indigo2 IMPACT

Part #	Description	Specifications
LS4416	16 MB Memory Upgrade	60-70 ns Speed, Four 4 MB SIMM Modules
LS4432	32 MB Memory Upgrade	60-70 ns Speed, Four 8 MB SIMM Modules
LS4464	64 MB Memory Upgrade	60-70 ns Speed, Four 16 MB SIMM Modules
LS4128	128 MB Memory Upgrade	60-70 ns Speed, Four 32 MB SIMM Modules

Power Indigo2

Part #	Description	Specifications
LS256000/PW12	256 MB Memory Upgrade	60-70 ns, Four 64 MB SIMM Modules

Challenge L, XL, DM, Power Challenge, Onyx

Part #	Description	Specifications
LS64000/R44K	64 MB Memory Upgrade	60-70 ns, Four 16 MB SIMM Modules
LS256000/R44K	256 MB Memory Upgrade	60-70 ns, Four 64 MB SIMM Modules

Challenge S

Part #	Description	Specifications
LS4416	16 MB Memory Upgrade	60-70 ns, Four 4 MB SIMM Modules
LS4432	32 MB Memory Upgrade	60-70 ns, Four 8 MB SIMM Modules
LS4464	64 MB Memory Upgrade	60-70 ns, Four 16 MB SIMM Modules
LS4128	128 MB Memory Upgrade	60-70 ns, Four 32 MB SIMM Modules

128 MB Upgrade

Indigo R3000, Personal Iris 4D/30, 35

Part #	Description	Specifications
LS4008	8 MB Memory Upgrade	60-70 ns Four 2 MB SIMM Modules
LS4032	32 MB Memory Upgrade	60-70 ns Four 8 MB SIMM Modules

Iris Crimson

Part #	Description	Specifications
LS16000/CRIM	16 MB Memory Upgrade	60-70 ns Eight 2 MB SIMM Modules
LS64000/CRIM	64 MB Memory Upgrade	60-70 ns Eight 8 MB SIMM Modules

Personal Iris 4D/20, 4D/25

Part #	Description	Specifications
LS3125-04	4 MB Memory Upgrade	60-70 ns Four 1 MB SIMM Modules
LS3125-16	16 MB Memory Upgrade	60-70 ns Four 4 MB SIMM Modules

Power Series

Part #	Description	Specifications
LS8000	8 MB Memory Upgrade	60-70 ns Four 2 MB SIMM Modules
LS32000	32 MB Memory Upgrade	60-70 ns Four 8 MB SIMM Modules

64 MB Upgrade

Call today for prices and configurations. **800-955-4229**

Disk Drives ~

Legasys Disk Drive capacities range from 1.05 to 21.0 GB, with either 3.5" or 5.25" FAST SCSI-2 or FAST Wide Differential.

DISK DRIVES

Indy *(Internal)*

Part #	Description	Specifications
LS4100/Y	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900/Y	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900B/Y	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
*LS4430B/Y	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High

Indy *(External)*

Part #	Description	Specifications
LS4100e/y	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4900e/y	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4900Be/y	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS4430e/y	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430Be/y	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS9100e/y	9.1 GB SCSI Disk Drive	5.25" 11 ms Seek, 5400 RPM
*LS9100Be/y	9.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
*LS2100e/y	21.0 GB SCSI Disk Drive	5.25" 8 ms Seek, 7200 RPM

Indy External Disk Drive

External Disk Drive

Challenge S *(Internal)*

Part #	Description	Specifications
LS4100/y	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900/y	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900B/y	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
*LS4430B/y	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High

Challenge S, L, XL, DM, Power Challenge, Onyx *(External)*

Part #	Description	Specifications
LS4900BFWe/OND	2.1 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, F/W/D
LS4430BFWe/OND	4.2 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, F/W/D
LS9100FWe/OND	9.0 GB SCSI-2 Disk Drive	11.5 ms Seek, 5400 RPM, F/W/D
*LS9100BFWe/OND	9.1 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, F/W/D
*LS2100e/OND	21.0 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, S/E

Challenge L, XL, DM, Power Challenge, Onyx *(Internal)*

Part #	Description	Specifications
LS4900BFW/OND	2.1 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, F/W/D
LS4900/OND	2.1 GB SCSI-2 Disk Drive	9 ms Seek, 5400 RPM S/E
LS4430BFW/OND	4.2 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM F/W/D
LS4430/OND	4.2 GB SCSI-2 Disk Drive	9 ms Seek, 5400 RPM, S/E
LS9100FW/OND	9.0 GB SCSI-2 Disk Drive	11.5 ms Seek, 5400 RPM F/W/D
LS9100/OND	9.0 GB SCSI-2 Disk Drive	11.5 ms Seek, 5400 RPM S/E
*LS2100/OND	21.0 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, S/E
*LS2100F/W/OND	21.0 GB SCSI-2 Disk Drive	8 ms Seek, 7200 RPM, F/W/D

Internal Disk Drive

Indigo *(Internal)*

Part #	Description	Specifications
LS4100	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900B	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
LS4430	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430B	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM

Internal Disk Drive

* Available Second Quarter of 1996

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Personal Iris, Iris Crimson, Power Series *(Internal)*

Part #	Description	Specifications
LS4100i	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM 1" High
LS4900i	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM 1" High
LS4900Bi	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS4430i	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430Bi	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS9100i	9.0 GB SCSI Disk Drive	5.25" 11 ms Seek, 5400 RPM

External Disk Drive

Indigo, Personal Iris, Iris Crimson, Power Series *(External)*

Part #	Description	Specifications
LS4100e	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4900e	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4900Be	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS4430e	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430Be	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS9100e	9.0 GB SCSI Disk Drive	5.25" 11 ms Seek, 5400 RPM
*LS9100Be	9.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
*LS2100e	21.0 GB SCSI Disk Drive	5.25" 8 ms Seek, 7200 RPM

Indigo2 *(External)*

Part #	Description	Specifications
LS4100e/2	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900e/2	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900Be/2	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
LS4430e/2	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430Be/2	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS9100e/2	9.1 GB SCSI Disk Drive	5.25" 11 ms Seek, 5400 RPM
*LS9100Be/2	9.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
*LS21000e/2	21.0 GB SCSI Disk Drive	5.25" 8 ms Seek, 7200 rpm

Internal & External Disk Drives

Indigo2 /Indigo2 Impact (Internal)

Part #	Description	Specifications
LS4100/2	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900/2	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900B/2	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
LS4430/2	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430B/2	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
*LS9100B/2	9.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM

Indigo2 Impact *(External)*

Part #	Description	Specifications
LS4100e/IM	1.0 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900e/IM	2.1 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM, 1" High
LS4900Be/IM	2.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM, 1" High
LS4430e/IM	4.2 GB SCSI Disk Drive	3.5" 9 ms Seek, 5400 RPM
LS4430Be/IM	4.2 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
LS9100e/IM	9.1 GB SCSI Disk Drive	5.25" 11 ms Seek, 5400 RPM
*LS9100Be/IM	9.1 GB SCSI Disk Drive	3.5" 8 ms Seek, 7200 RPM
*LS21000e/IM	21.0 GB SCSI Disk Drive	5.25" 8 ms Seek, 7200 rpm

External Disk Drives

Available Second Quarter of 1996

D I S K D R I V E S

"IF I ORDER TODAY, I'LL GET THEM TOMORROW. THAT'S WHY WE USE LEGASYS SO MUCH."

– Steve Cencula, President, Kaleidoscope Animations, Inc.

Disk Drives ~
Legasys Disk Drive capacities range from 1.05 to 21.0 GB, with either 3.5" or 5.25" FAST SCSI-2 or FAST Wide Differential.

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CD-ROM & OPTICAL DRIVES

Internal & External CD-ROM Drives

Erasable Optical Drive

External CD-ROM Drive

Floptical Drive

CD-ROM Drives ~

Legasys features Quad Speed CD-ROM readers from Toshiba Corporation. The Legasys CD-ROM readers are 650 MB, with a 120 ms average access time. All Legasys CD-ROM readers include proprietary firmware from Silicon Graphics that guarantees 100% compatibility on all Silicon Graphics worksta-tions. All Legasys CD-ROM readers are guaranteed bootable on the entire line of Silicon Graphics workstations.

CD-ROM Drives

Part #	Description
LS-CD-ROMQ-Indy	External Quad Speed CD-ROM for Indy
LS-CDQ/2	Internal Quad Speed CD-ROM for Indigo2, Indigo2 Impact
LS-CD/ROMQ-12	External Quad Speed CD-ROM for Indigo2
LS-CD/ROMQ-IM	External Quad Speed CD-ROM for Indigo2 Impact
LS-CDQ/OND	Internal Quad Speed CD-ROM for Challenge/Onyx
LS-CDQ/E	External Quad Speed CD-ROM for Indigo, P.I., Crimson

Erasable Optical Drives

Part #	Description
LS1300e/2	External 1.3 GB Erasable Optical for Indigo2
LS1300e/IM	External 1.3 GB Erasable Optical for Indigo2 Impact
LS1300e/y	External 1.3 GB Erasable Optical for Indy
LS1300e	External 1.3 GB Erasable Optical for Indigo, P.I., Crimson
Tahiti-Media	512k Sector Media for all 1.3 GB Erasable Optical Drives
LS4600e/2	External 4.6 GB Erasable Optical for Indigo2
LS4600e/IM	External 4.6 GB Erasable Optical for Indigo2 Impact
LS4600e/y	External 4.6 GB Erasable Optical for Indy
LS4600e	External 4.6 GB Erasable Optical for Indigo, P.I., Crimson
OMDR 4.6GB	4.6 GB Media for all 4.6 Erasable Optical Drives

Floptical Drives

Part #	Description
IU375	Internal 20 MB Floptical Drive for Indy
IU375/2	Internal 20 MB Floptical Drive for Indigo2, Impact
IU375e/2	External 20 MB Floptical Drive for Indigo2
IU375e/IM	External 20 MB Floptical Drive for Indigo2 Impact
IU375e/y	External 20 MB Floptical Drive for Indy
IU375-Media	20 MB Media for Floptical Drive

CD-ROM Writer

Part #	Description	Specifications
LS-CDR100e	681MB 4 Speed	Compact 1/2 High 5.25" Footprint Transfer Rate of 614.1 KB/Sec. (4X Mode) CD-ROM,CD-ROMXA, CD-1, and CD-DA Formats Disc-at-Once and Track-at-Once Recording Modes SCSI-2 Interface

"FOR MORE THAN A DECADE, ANY THIRD PARTY PERIPHERAL BUSINESS THAT WE'VE DONE HAS BEEN WITH LEGASYS PRESIDENT RICK PICKETT. RICK IS A TOP NOTCH PERSON. I WOULDN'T DARE DO THE BUSINESS WE'VE DONE IF I DIDN'T TRUST HIM COMPLETELY."

– Wyndham Hannaway, President, GW Hannaway & Associates, Boulder, Colorado

CD-ROM Writer

Call today for prices and configurations.   **800-955-4229**

Indy Tape Drives *(External)*

Part #	Description	Specifications
LS4200e/y	2.0 GB 4 mm DAT Tape	183 KB Transfer Rate, DDS Format
LS4440e/y	4.0 GB 4 mm DAT Tape	400 KB Transfer Rate, DDS-2 Format
LS3505e/y	5.0/7.0 GB 8 mm Tape	500 KB Transfer Rate, Helical Scan
DLT20XTe/y	15.0 GB 1/2" DLT Tape	1.25 MB/Sec. Transfer Rate, DLT
DLT40e/y	40.0 GB 1/2" DLT Tape	1.5 MB/Sec. Transfer Rate, DLT

External Tape Drive

Internal & External Tape Drives

Indigo2/Indigo2 IMPACT Tape Drives *(Internal)*

Part #	Description	Specifications
LS4200/2	2.0 GB 4mm DAT Tape	3.5" 183 KB Transfer Rate, DDS Format
LS4440/2	4.0 GB 4mm DAT Tape	3.5" 400 KB Transfer Rate, DDS-2 Format
LS3505/2	5.0/7.0 GB 8mm Tape	5.25" 500 KB Transfer Rate, Helical Scan

Indigo2 Tape Drives *(External)*

Part #	Description	Specifications
LS4200e/2	2.0 GB 4 mm DAT Tape	183 KB Transfer Rate, DDS Format
LS4440e/2	4.0 GB 4 mm DAT Tape	3.5" 400 KB Transfer Rate, DDS-2 Format
LS3505e/2	5.0/7.0 GB 8 mm Tape	5.25" 500 KB Transfer Rate, Helical Scan
DLT20XTe/2	15.0 GB 1/2" DLT Tape	1.25 MB/Sec. Transfer Rate, DLT
DLT40e/2	40.0 GB 1/2" DLT Tape	1.5 MB/Sec. Transfer Rate, DLT

Indigo2 IMPACT Tape Drives *(External)*

Part #	Description	Specifications
LS4200e/IM	2.0 GB 4 mm DAT Tape	183 KB Transfer Rate, DDS Format
LS4440e/IM	4.0 GB 4 mm DAT Tape	400 KB Transfer Rate, DDS-2 Format
LS3505e/IM	5.0/7.0 GB 8 mm Tape	500 KB Transfer Rate, Helical Scan
DLT20XTe/IM	15.0 GB 1/2" DLT Tape	1.25 MB/Sec Transfer Rate, DLT
DLT40e/IM	40.0 GB 1/2" DLT Tape	1.5 MB/Sec. Transfer Rate, DLT

External Tape Drive

Challenge L, XL, DM, Power Challenge, Onyx Tape Drives *(Internal)*

Part #	Description	Specifications
LS4200/OND	2.0 GB 4 mm DAT Tape	183 DB Transfer Rate, DDS Format, S/E
LS4440/OND	4.0 GB 4 mm DAT Tape	400 KB Transfer Rate, DDS-2 Format,S/E
LS3505/OND	5.0/7.0 GB 8 mm Tape	500 KB Transfer Rate, Helical Scan, S/E
LS4050/OND	150 MB QIC 150 Tape	100 KB Transfer Rate, QIC 150, S/E

Challenge L, XL, DM, Power Challenge, Onyx Tape Drives *(External)*

Part #	Description	Specifications
LS4200e/OND	2.0 GB 4 mm DAT Tape	183 KB Transfer Rate, DDS Format
LS4440e/OND	4.0 GB 4 mm DAT Tape	400 KB Transfer Rate, DDS-2 Format
LS3505e/OND	5.0/7.0 GB 8 mm Tape	500 KB Transfer Rate, Helical Scan
DLT20XTe/OND	15.0 GB 1/2" DLT Tape	1.25 MB/Sec. Transfer Rate, DLT
DLT40e/OND	40.0 GB 1/2" DLT Tape	1.5 MB/Sec. Transfer Rate, DLT

Tape Drives ~

Legasys Tape Drive capacities range from 2.0 GB to 40.0 GB and are ideal for back-up or data exchange. Drive interfaces include 4mm DAT, QIC-150, 8mm, and DLT.

T A P E   D R I V E S

LEGASYS
INTERNATIONAL

Vault S

Part #	Description
Vault-S	Zero Footprint Enclosure for SGI Indy Workstation Storage Expansion

Vault-S

The Vault-S, *available now from Legasys International, allows you to add a CD-ROM Drive, gigabytes of storage, and a convenient means to back-up all of your valuable data in a compact zero-footprint solution.*

The Versatility of the Vault-S *permits the installation of any of the following devices, all in virtually the*

same physical footprint of the Silicon Graphics Indy:

- *Quad Speed CD-ROM Drive*
- *8mm 5.0/7.0 GB SCSI Tape Drive*
- *4mm DAT SCSI Tape Drive*
- *150 MB-1.0GB ¼" QIC-150 Tape Drive*
- *(1) Full Size 3.5" SCSI Disk Drive*
- *(2) Low Profile 3.5" SCSI Disk Drives*

VAULT-S

CRD-5500 RAID DISK ARRAY CONTROLLER

ADVANCED FEATURES

- *RAID levels 0, 1, 0+1, 4, and 5*
- *Over 6,450 IOPS and 17MB/Sec per SCSI Host Channel*
- *Dual Redundant Controller Option*
- *Up to 8 Fast, Fast/Wide, or Fast/Wide/Differential SCSI Disk Channels*
- *Up to 512 MB of Data Cache using industry-standard, 72-pin SIMM modules*
- *Up to 4 Fast/Wide or Fast/Wide/Differential SCSI Host Channels*
- *Standard 5¼ inch, full height form-factor*
- *Up to 512 MB of Data Cache using industry-standard, 72-pin SIMM modules*
- *40 Mhz, 32-bit LR33310 RISC CPU (MIPS R3000 core)*
- *Modular, Scalable Design*

Once again, CMD has raised the standard by which all other RAID controllers will be compared! CMD's CRD-5500 SCSI to SCSI RAID controller is the industry's best solution for building high performance, high availability SCSI disk array subsystems. The CRD-5500 was designed to satisfy the most demanding requirements of today's sophisticated RAID user; it gives you high performance in every application, without compromising reliability or data integrity. The key to the CRD-5500's outstanding performance are CMD designed proprietary ASIC components, as well as innovative caching and RAID algorithms. Unlike other RAID controllers, CMD's advanced "Viper" RAID architecture and ASICs were designed to support tomorrow's high speed serial interfaces, such as Fiberchannel (FCAL) and Serial Storage Architecture (SSA). In addition, the CRD-5500's modular design allows the user to quickly and easily configure an optimal RAID subsystem simply by installing individual Fast, Fast/Wide, or Fast/Wide/Differential SCSI interface modules and up to 512 MB of data cache using industry standard SIMM modules.

CMD Technology, Inc.

For further information, contact your Legasys Sales Representative

11

SiliconGraphics ™
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RAID Array

Indy

Part #	Description	Specifications
LS981000-IN	10.0 GB RAID Array	Five (5) 2.0 GB SCSI-2 Disk Drives
LS982100-IN	21.0 GB RAID Array	Five (5) 4.2 GB SCSI-2 Disk Drives
LS984200-IN	42.0 GB RAID Array	Ten (10) 4.2 GB SCSI-2 Disk Drives
LS989000-IN	90.0 GB RAID Array	Ten (10) 9.0 GB SCSI-2 Disk Drives
LS9811200-IN	112.0 GB RAID Array	Thirteen (13) 9.0 GB SCSI-2 Disk Drives

Challenge L, XL, DM, Power Challenge, Challenge S, Onyx

Part #	Description	Specifications
LS98100-CH	10.0 GB RAID Array	Five (5) 1.0 GB SCSI-2 Disk Drives
LS982100-CH	21.0 GB RAID Array	Five (5) 4.2 GB SCSI-2 Disk Drives
LS984200-CH	42.0 GB RAID Array	Ten (10) 4.2 GB SCSI-2 Disk Drives
LS989000-CH	90.0 GB RAID Array	Ten (10) 9.0 GB SCSI-2 Disk Drives
LS9811200-CH	112.0 GB RAID Array	Thirteen (13) 9.0 GB SCSI-2 Disk Drives

Indigo2/Indigo2 IMPACT

Part #	Description	Specifications
LS98100-I2	10.0 GB RAID Array	Five (5) 1.0 GB SCSI-2 Disk Drives
LS982100-I2	21.0 GB RAID Array	Five (5) 4.2 GB SCSI-2 Disk Drives
LS984200-I2	42.0 GB RAID Array	Ten (10) 4.2 GB SCSI-2 Disk Drives
LS989000-I2	90.0 GB RAID Array	Ten (10) 9.0 GB SCSI-2 Disk Drives
LS9811200-I2	112.0 GB RAID Array	Thirteen (13) 9.0 GB SCSI-2 Disk Drives

RAID Arrays In The Silicon Graphics Environment ~

Legasys RAID Arrays range from 3.0 to 250 GB capacities with vastly improved Data Transfer Rates. Each Array supports RAID Levels of 0, 1, 3, 4, and 5 and uses only one SCSI Address. All RAID Arrays are 100% hardware and software compatible with Silicon Graphics. All Legasys RAID Arrays are available for the entire line of Silicon Graphics workstations, including the Indy, Indigo2, Indigo2 IMPACT, Challenge S, Power Challenge and the Challenge/Onyx workstations. Due to the manner in which RAID is implemented in the Silicon Graphics environment, overall performance, including sustained data transfer rates, will vary depending on the number of disk drives in the RAID. Generally speaking, minimum sustained data transfer rates will be 8.0 MB/sec on the smaller capacity RAID Arrays. Higher sustained data transfer rates of up to 17-19 MB/sec are achieved as the number of disk drives in the RAID increases. Even faster sustained higher data transfer rates, up to 70mb/sec, can be achieved via striping multiple RAID Arrays using the striping software resident in the Silicon Graphics Irix O/S.

Note: *Due to the limitations of the Silicon Graphics IRIX O/S, a total of fourteen 8.0 GB Disk Partitions are available in the RAID configuration, which limits total RAID capacities per SCSI address to 112.0 GB. Silicon Graphics has indicated that the new Irix 6.2, soon scheduled for release, will remove this limitation via the inclusion of XFS (Extended File System) in the new IRIX release. When operating in a RAID 3 or RAID 5 Environment, a portion of the total disk capacity in the RAID Array is dedicated to a parity disk, or the disk on which the information is stored redundantly. Operations under RAID Levels 3 or 5 will result in slightly reduced overall disk capacity as a result of the parity drive. Additional custom RAID Array configurations are available. Please contact your Legasys Sales Representative for pricing and custom RAID configuration information.*

Note: *Each Legasys RAID Array includes the number and capacity of disk drives noted, dedicated RAID controller, either 5 drive, 7 drive, 10 drive, or a 20 drive RAID Enclosure, depending on the number of drives in the RAID, and all cables and additional accessories necessary for installation on the Silicon Graphics workstation noted in the Legasys part number.*

Note: *Standard features on all Legasys RAID Arrays include: Hot Swappable Power Supplies, Hot Swappable Disk Drives, Dedicated RAID Controller, Multi-Host Capability, UL and CSA Approved RAID Enclosures, and Set-Up and Testing of the RAID Level Specified. All drives are pre-formatted, labeled, and tested on Silicon Graphics Workstations.*

Note: *Multiple RAID Controller Configurations for True Fault Tolerant Capability are also available.*

R A I D   A R R A Y S

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VIDEO DISK ARRAYS

Disk Arrays

Part #	Description	● ●
Vault-I2/6	6 Minute (8GB) Disk Array for Indigo2 12MB/Sec. Sustained Transfer Rate	
Vault-I2/12	12 Minute (16GB) Disk Array for Indigo2 16MB/Sec. Sustained Transfer Rate	
Vault-IM/6	6 Minute (8GB) Disk Array for Indigo2 IMPACT 12MB/Sec. Sustained Transfer Rate	
Vault-IM/12	12 Minute (16GB) Disk Array for Indigo2 IMPACT 16MB/Sec. Sustained Transfer Rate	
Vault-CS/6	6 Minute (12GB) Disk Array for Challenge S 30MB/Sec. Sustained Transfer Rate	
Vault-CS/8	8 Minute (24GB) Disk Array for Challenge S 28MB/Sec. Sustained Transfer Rate	
Vault-CT/18	18 Minute (33GB) Disk Array for Challenge/Onyx 45MB/Sec. Sustained Transfer Rate-Tower Configuration	
Vault-CR/18	18 Minute (33GB) Disk Array for Challenge/Onyx 45MB/Sec. Sustained Transfer Rate-Rack Mount Configuration	

Vault-CS

Vault-CT

Vault-IM

Vault I2

Note: Vault-I2 and Vault-IM Disk Arrays include enclosures that are the same footprint and color as the Indigo2 or IMPACT.

Note: Vault-CT Disk Arrays are housed in a compact, deskside enclosure.

Note: Vault-CT/18 and Vault-CR/18 require four fast wide differential SCSI Buses. Vault-CS/6 and Vault CS/8 Require Dual Fast Wide Differential SCSI Buses on Challenge S.

Note: Data transfer rates are dependent upon partition sizes. Some disk arrays may require Silicon Graphics Extended File System (XFS) due to 8.0 GB file size limitation in IRIX 5.3.

Disk Arrays ~

Legasys offers a full line of Disk Arrays for users whose applications demand faster sustained data transfer rates. All Legasys Disk Arrays are ideal for applications such as rendering, non-linear editing, on-line editing, real time composing, and on-line special effects. Legasys Disk Arrays are available in a wide range of capacities, offering 6 to 32 minutes of continuous video.

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Legasys peripherals complement all UNIX workstations, including Silicon Graphics' Indigo, Indigo2, Indigo2 IMPACT, Indy, Challenge and Onyx. Our state-of-the-art products are created by industry-leading manufacturers who enjoy reputations for quality, reliability and innovation. Along with Kingston Technology, our suppliers include Seagate Technology, Exabyte, Conner/Archive, Digital Equipment, Toshiba, JMR, Agile, Quantum, Trimm and Pinnacle Micro.
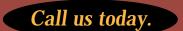
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