



## *BriteLite™ LX Portable Workstation*

The BriteLite LX provides performance and functionality for Sun™ workstation users on the go. Based on the 50 MHz SPARCengine® LX board from Sun Microsystems®, the BriteLite LX has the power to run the most complex software programs on the road or in your office. The BriteLite LX expands to 96 MB of memory and 1 GB of internal disk storage, providing desktop workstation capacity.

The BriteLite LX offers a choice of active matrix LCD color display models. The BriteLite LX Colorplus has a 640x480 resolution LCD with a 262,000 color palette and 64 grayscales, and the BriteLite LX 1024x768 is the first portable workstation with a high resolution color LCD and GX graphics acceleration. Unique to RDI is the capability to upgrade from a 640 Colorplus™ to the high resolution 1024 LCD. The BriteLite LX attaches to a range of external monitors and provides simultaneous outputs to the LCD and the monitor. With GX graphics, high resolution display and 16-bit CD-quality stereo audio capabilities, the BriteLite LX has the features and functionality to support demanding multimedia and graphics applications.

As with all the BriteLite products, the BriteLite LX ensures compatibility with thousands of SPARC® applications. Manufactured with actual Sun SPARCengine boards and an unmodified version of the Solaris® 2.3 or 1.1.1 operating environment, the BriteLite LX provides access to thousands of solutions available for SPARC workstations. The BriteLite LX supports a variety of connectivity alternatives including serial, parallel, AUI and twisted pair Ethernet.

As the pioneer in portable workstation technology, RDI continues to set industry standards for portable workstation performance. With the BriteLite LX, RDI has done it again. With 60 MIPS of computing power, the BriteLite LX is by far the most powerful, portable SPARC workstation in the world.



# BriteLite LX Portable Workstation

## Features

## Benefits

### *High Performance*

Sun SPARCengine LX board

- 100% compatibility with Sun hardware and software, as well as thousands of third party products designed for Sun systems
- Uses Sun's most highly integrated microprocessor, microSPARC® delivers the power of four chips in one

50 MHz, 59.1 MIPS, 4.6 MFLOPS, 16 MB RAM, 26.4 SPECint92, and 21.0 SPECfp92

- Sun's high-performance RISC architecture provides superior price/performance for demanding technical and specialized commercial applications
- Power and memory to quickly process many large applications simultaneously

1024x768 active matrix color LCD with GX or 640x480 Colorplus, active matrix, color LCD with 262,000 color palette and 64 grayscales

- Advanced technology 1024x768 high resolution LCD with GX for workstation applications, 640x480 Colorplus for realistic color representation and 64 grayscales

Internal storage capacity of up to 1 GB

- Optional 1 GB drive provides large internal disk capacity for local storage

Solaris 32-bit distributed computing environment (unmodified and pre-installed) using Solaris 1.1.1 or 2.3.

- Provides all the advantages of multitasking, networking, and multi-threading - plus access to thousands of solutions available for ALL SPARC systems

Dedicated 64-bit memory bus

- Increases performance by optimizing CPU, graphics, and I/O performance

### *Built-in Networking*

Includes built-in Basic Rate ISDN and 10-Base T (TPE) port

- Supports low-cost wide-area networking and integrated telephony

Supports Netware®, PC-NFS®, DECnet®, ONC™ (TCP/IP), and SNA 3270 protocols, as well as Ethernet, FDDI and token ring technologies

- Extends powerful networking capabilities from small to large networks, including support for connectivity to PC and mainframe systems

### *Standard Features*

Simultaneous display capabilities

- Provides built-in presentation and demonstration capabilities

One open SBus I/O slot with full master slave support, burst transfers up to 64 bytes

- Offers expansion with hundreds of user-installable add-on cards available from Sun and other third party vendors

Up to 96 MB RAM on motherboard

- Flexibility to expand performance: supports memory-intensive applications without additional memory boards

Integrated I/O ports:

- Increases application performance with Ethernet, SCSI, serial, parallel, floppy, keyboard, and mouse controllers that fit on two chips

- SCSI-2 connector, 10 MB/sec

- Enable synchronous and asynchronous data transfer with industry standard hard disks, CD ROMs, tape drives, as well as 10-MB/sec I/O peripherals

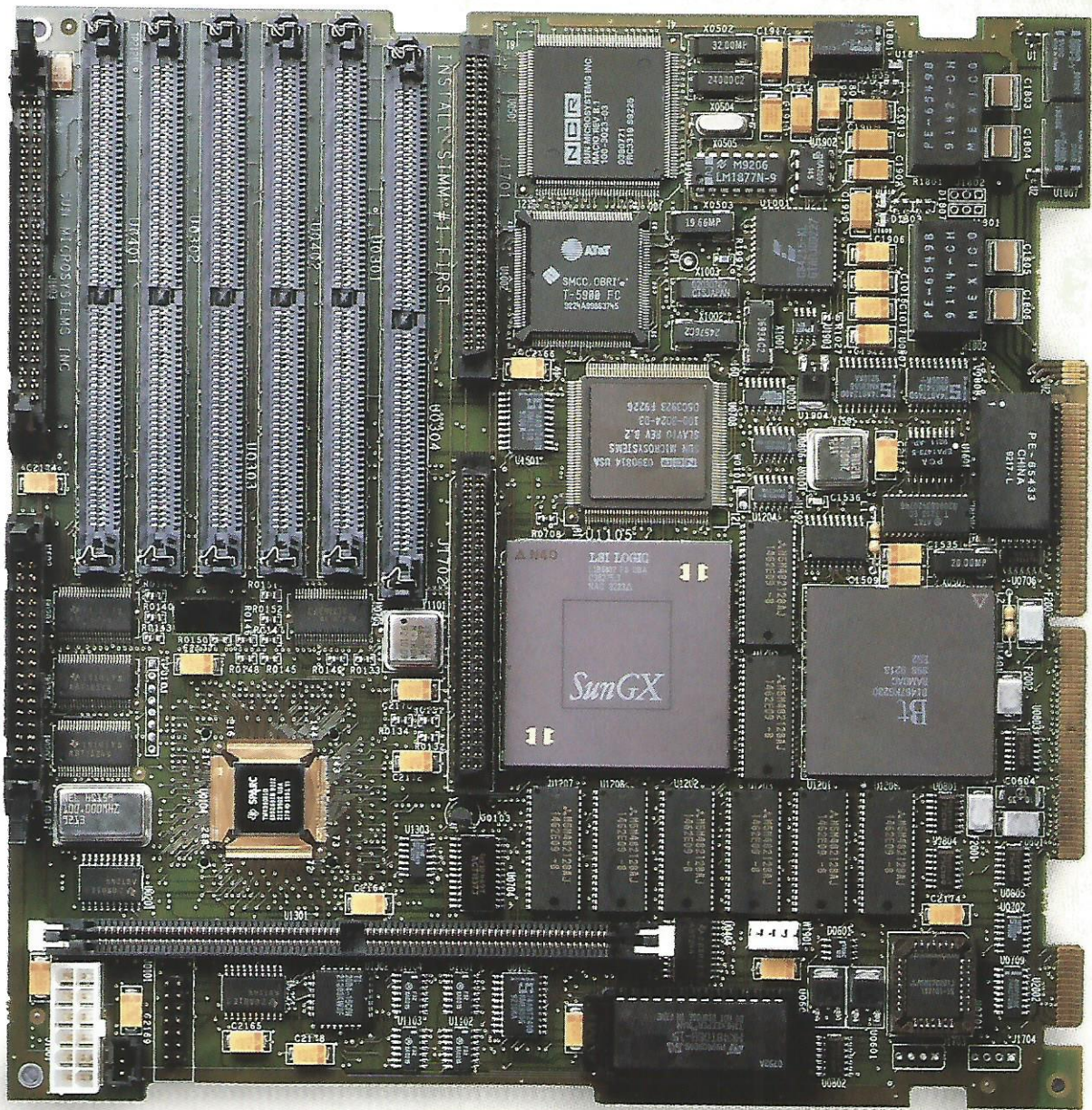
- Audio/AUI port

- Provides 16-bit CD-quality sound for multimedia and voice applications and AUI Ethernet support

- Bidirectional programmable parallel port

- Allows use of low-cost, standard, parallel printers and devices





*The RDI BriteLite LX utilizes the Sun SPARCengine LX board with the microSPARC CPU. This motherboard offers BriteLite users enhanced performance and functionality, as well as greater memory capacity. Bundled with an unmodified version of Solaris 1.1.1 or 2.3, the BriteLite LX ensures 100% compatibility with absolutely no compromises.*



# Specifications

## Software

Operating System	Solaris 1.1.1 or 2.3
Window System	OpenWindows™ 3.2, IXI Motif w/Panorama
Networking	ONC, NFS, TCP/IP, SunNet, OSI, MHS

## Motherboard and Processor

Sun SPARCengine LX board  
SPARC Version 8, microSPARC 50 MHz

## Performance

SPECint92 <sup>1</sup>	26.4
SPECfp92 <sup>2</sup>	21.0
MIPS	59.1
MFLOPS	4.6

## Memory (Parity)

Expansion	16 MB to 96 MB maximum
Cache	2-KB data, and 4-KB instruction
MMU	SPARC reference Memory Management Unit with 64 contexts

## Display frame buffers

Colorplus: cg3 for LCD, GX for external display<sup>3</sup>  
1024x768: GX for LCD and external display

## Display Options

Color 1024x768 or Colorplus 640x480 Active Matrix LCD screen:

	640x480	1024x768
Palette	262,000	512
Pixel aspect ratio	1:1	1:1
Screen aspect ratio	4:3	4:3
Dot pitch	.33 mm	.20mm
Dots per inch	77	120
Display Height	6.38 in. (159 mm)	
Display Width	8.63 in. (212 mm)	
Display Diagonal	10.4 in. (264 mm)	

## Keyboard

Sun 1-5 compatible, 103 keys, external mouse

## Media

Floppy Disk Drive	3.5 inch, auto-sensing
Capacity	720 KB or 1.44 MB
Hard Disk Drive:	
	450 MB - 14 ms average seek time
	1 GB - 11 ms seek time

## Standard Interfaces

Ethernet	10-Mb/sec twisted pair standard (10-BaseT) AUI available with optional adapter
SCSI	10-MB/sec SCSI-2 (synchronous)
Serial	Two RS232C serial ports
Parallel	Centronics-compatible parallel port
Audio	CD-quality 16-bit audio, 8-48 kHz
ISDN <sup>5</sup>	Basic Rate Interface; 2B+D or 144 Kb/sec
SBus	One single width slot available
External video	13W3 D-type socket
Mouse/keyboard	8-pin, mini-DIN connector

## Controls And Indicators

Power on/off switch LED Indicators:

- Power on
- Scroll Lock key
- Floppy Disk
- Compose
- Caps Lock key
- Hard Disk
- Low Battery Warning
- Brightness Control

## System Dimensions

Height	3.875 in. (9.80 cm)
Width	12.75 in. (32.38 cm)
Length	15.75 in. (40.00 cm)
Volume	0.45 cu. ft. (0.02 cu. m)
Weight	14.5 lbs.

## Environmental

Altitude	0-10,000 ft. (0-3,408 m)
Operating	+50° to +104°F (10° to +40°C)
Storage	-4 ° to +140°F (-20° to +60°C)

## Regulations

Safety	UL 1950, CSA 950, CE
RFI/EMI	FCC part-15 Class A

## Battery Information

NiCad battery pack	5 Amp-hour capacity
Run Time	1 hour in continuous use
Recharge Time	3 hours charging only
Low battery sensing	

## AC Adapter Charger

Automatic voltage and frequency sensing	
Voltage	90-240 VAC
Frequency	47-63 Hz
Power Supply	130W continuous
DC output	20 Vdc @ 6.5A
Length	7.3 in. (18.5 cm)
Width	3.25 in. (8.2 cm)
Height	1.8 in. (4.5 cm)
Weight	2.0 lbs. (0.9 kg)
AC cord	NEMA 15P 3-prong grounded plug, 6 ft. (1.81 m)
DC cord	Locking 4 pin DIN connector, 5 ft. (1.52 m)
Safety	UL 1950, CSA 950, CE

## Other Standard Features

Digitized sound output through built-in speaker  
Time-of-day clock with separate battery backup  
3-button mechanical mouse  
Nylon carrying case  
Docking Workstation Feature allows connection of desktop peripherals such as external color monitor and Sun-4 or 5 external keyboard.  
Simultaneous display capabilities with connection to VGA resolution external monitor or projection panel, on 640 model.

<sup>1</sup> Figures based on publicly available SPEC CPU integer benchmark suite, SPECint92, which measures integer compute performance. Results are based on Sun SC1.0 and KAP compilers.

<sup>2</sup> Based on the publicly available SPEC CPU floating-point benchmark suite, SPECfp92, which measures floating-point compute performance. Results are based on Sun SC1.0 and KAP compilers.

<sup>3</sup> Simultaneous external display also provided through separate VGA connector.

<sup>4</sup> Use is subject to local PTT certification.

Specifications subject to change without notice.



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