

The SX OEM Board Family



Embedding Sun technology today for tomorrow's next-generation solutions.

Key feature highlights

SX100

The SX100 Thin Client OEM board offers embedded OEMs and system integrators their first access to Sun Ray™ Thin Client technology. The SX100 Thin Client OEM board is small and fanless, and it connects to a display device, keyboard, and mouse. Its main functions are to process input and output for the user and to manage communication with a shared server such as a Sun Enterprise™ workgroup server. The SX100 Thin Client OEM board includes an on-board Smart Card reader to give users the flexibility and mobility to access their session from any SX100 Thin Client OEM board in the workgroup.

SX1500

Powered by Sun's latest UltraSPARC® IIIi processor and the Solaris™ 8 Operating System, the SX1500 motherboard offers a high-performance, low-cost solution for embedded applications. This robust motherboard uses a standard ATX form factor, so customers have seamless integration into existing chassis. Engineered for quality and compatibility, the SX1500 is an ideal platform for applications in telecommunications, medical imaging and visualization, data analysis, and networking systems.

SX2500

This industry-standard, extended ATX form-factor board gives embedded OEMs and system integrators direct access to Sun's latest dual-processor UltraSPARC IIIi technology. Running the Solaris 8 Operating System, the SX2500 delivers cutting-edge multiprocessing power in an affordable board-based package. Offering the performance demanded by embedded applications, the SX2500 is an ideal solution for a wide range of image and visualization applications, design and analysis, and telecommunications.

Ideal building blocks for embedded computing platforms.

From Sun's SX100 Thin Client through the SX1500 and the SX2500, Sun's board platforms save OEMs an enormous amount of development and production time, while allowing them to leverage the expertise of the world's leading network-computing solutions provider. This family of products is designed for multiple target segments that include defense, aerospace, digital printing, medical imaging, telecommunications, and embedded industrial environments. OEMs can differentiate networked computing products and make them more cost-effective by taking advantage of Sun's proven UltraSPARC technology along with the Solaris Operating System, and utilizing off-the-shelf PCI components.



SX100



SX1500



SX2500

The Sun SX OEM Board Family Specifications

SX100

Key Features

Placement	Thin client
Graphics	24-bit graphics, 2-D acceleration; resolutions up to 1280 x 1024 at 75 MHz
Peripheral	Four powered USB ports
Network	Dedicated 10/100 BaseT; requires dedicated connection between each SX100 Thin Client and the server running the Sun Ray Server software
Input	ISO-7816-1-compliant Smart Card reader
Audio	CD-quality audio-in/out, microphone, and headphone jacks
Video input	NTSC/PAL, RCA connector
Monitor	Industry-standard HD15 connector

Dimensions

Height	18.5 mm (0.74 in.)
Width	16 cm (6.25 in.)
Depth	22.5 cm (8.75 in.)
Weight	235 g (0.52 lb.)

Power

Power management	Energy Star compliant
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Environmental (SX100 meets the below environmental data in a Sun Ray 1 enclosure)

Operating	0° to 35° C (32° to 95° F)
Nonoperating	-20° to 60° C (-4° to 140° F)

Regulations (SX100 meets below the regulations in a Sun Ray 1 enclosure)

Safety	Complies with the Low Voltage Directive 73/23/EEC based upon type examination certification to the following standards: EN60950/IEC950, EN60950 with all countries' deviations
Regulatory markings	FCC Class B, ICES-003, CE
Ergonomics	EK ITB-2000
RFI/EMU	FCC Class B, ICES-003, EN55022 Class B, EN61000-3-2
Immunity	EN55024
X-ray	DHHS 21 Subchapter J; PTB German X-ray Decree

SX1500

Key Features

Placement	Single processor, ATX form factor
CPU	One UltraSPARC IIIi
L2 cache	1 MB integrated
Processor speeds	1.06 GHz
Memory capacity	8-GB ECC DDR-1 DIMMs in four slots
PCI buses/slots	Two buses, five slots (one @ 64-bit/66-MHz, two @ 64-bit/33-MHz, two @ 32-bit/33-MHz)
Graphics supported	Sun™ XVR-100 (three max), Sun™ XVR-500 (two max)
Drive type	ATA 100 IDE
Drive capacity	Up to two 80-GB internal disk drives
Solaris Operating System	Solaris 8 HW 5/03 or later
Size	Standard ATX form factor (12 in. x 9.6 in.)

I/O

Ethernet	10/100/1000 BaseT
USB 1.1	Two ports
USB 2.0	Three ports (via optional PCI card)
Parallel	One port
Serial	Two ports

Environmental (SX1500 meets or exceeds the below environmental data in a Sun Blade™ 1500 enclosure)

AC power	100 to 120; 220 to 240 V AC, 47 to 63 Hz, 0.3 K VA
Operating	5° to 40° C (41° to 104° F)
Nonoperating	-32° to 65° C (-25.6° to 149° F)
Acoustic noise (operating)	5.0 bels
Acoustic noise (idling)	4.5 bels

Regulations (SX1500 meets or exceeds the below regulations in a Sun Blade 1500 enclosure)

Safety	UL /CSA-60950, EN 60950, IEC60950 CB scheme with all national differences, IEC825-1,2, and CFR21 part 1040
Regulatory markings	CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, BSMI, MIC, UL/cUL, TUV-GS, CCC, S-Mark
Ergonomics	EK ITB-2000
RFI/EMU	FCC Class B, ICES-003 Class B, VCCI Class B, EN55022 Class B BSMI Class B, EN61000-3-2, EN61000-3-3
Immunity	EN55024
X-ray	DHHS 21 Subchapter J; PTB German X-ray Decree

SX2500

Key Features

Placement	Dual processor, extended ATX form factor
CPU	Two UltraSPARC IIIi
L2 cache	1 MB integrated
Processor speeds	1.28 GHz
Memory capacity	16-GB ECC DDR-1 DIMMs in eight slots
PCI buses/slots	Four buses, six slots (three @ 64-bit/66-MHz, three @ 64-bit/33-MHz)
Graphics supported	Sun XVR-100 (four max), Sun XVR-500 (two max), Sun™ XVR-1200 (two max)
Drive type	UltraSCSI IV 320 and ATA 100 IDE
Drive capacity	Up to two 36-GB internal disk drives
Solaris Operating System	Solaris 8 HW 5/03 or later
Size (without mounting tray)	Extended ATX form factor (12 in. x 13 in.)

I/O

Ethernet	10/100/1000 BaseT
USB 1.1	Four ports
USB 2.0 I	Three ports (via optional PCI card)
Parallel	One port
Serial	One port

Environmental (SX2500 meets or exceeds the below environmental data in a Sun Blade 2500 enclosure)

AC Power	100 to 120; 220 to 240 V AC, 47 to 63 Hz, 0.3 K VA
Operating	5° to 40° C (41° to 104° F)
Nonoperating	-40° to 65° C (-40° to 149° F)
Acoustic noise (operating)	5.4 bels
Acoustic noise (idling)	5.1 bels

Regulations (SX2500 meets or exceeds the below regulations in a Sun Blade 2500 enclosure)

Safety	UL /CSA-60950, EN 60950, IEC60950 CB scheme with all national differences
Regulatory markings	CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, BSMI, CCC, S-Mark
Ergonomics	EK ITB-2000
RFI/EMU	FCC Class B, ICES-003 Class B, VCCI Class B, EN55022 Class B BSMI Class B, EN61000-3-2, EN61000-3-3
Immunity	EN55024
X-ray	DHHS 21 Subchapter J; PTB German X-ray Decree

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