## **MICROELECTRONICS**



# SPARCengine<sup>™</sup> ULTRA<sup>™</sup> AXi

## Industry-Standard UltraSPARC<sup>™</sup> i-Series Motherboard for High-performance OEM Solutions

Powered by the UltraSPARC IIi processor, the SPARCengine" Ultra<sup>™</sup> AXi motherboard offers a high-performance, scalable, low-cost solution for embedded applications. This robust motherboard uses a standard form factor and is the latest member of Sun's standards-based family of PCI-based platforms. Engineered for quality and compatibility, the Ultra AXi is an ideal platform for applications in telecommunications, medical imaging

## HIGHLIGHTS

- SPARC" V9 UltraSPARC IIi processor module with speeds from 270 MHz to 440 MHz and cache sizes from 256 KB to 2 MB
- Binary compatibility with all Solaris" operating environment applications
- High-performance and high-bandwidth graphics interface for imaging-intensive applications along with Sun's unique Visual Instruction Set (VIS)
- Up to six industry-standard PCI slot available for I/O expansions

and visualization, data analysis, and networking systems. The outstanding combination of flexibility and scalability provided by the UltraSPARC architecture prepares OEM customers to address future performance-enhancement requirements. The Ultra AXi's extensive feature set includes up to one gigabyte of memory, onboard dual channel ultrawide SCSI, integrated 10/100 Mbps Ethernet, and six 32-bit/33-MHz PCI slots.

- Onboard fast Ethernet and two ultrawide SCSI interfaces
- Advanced System Monitoring (ASM) for intelligent fault detection
- OS support of Solaris 2.6 and Solaris 7 operating environments

TYPICAL APPLICATIONS

- High-performance Embedded Controllers
- Telecom Adjunct Server
- Medical Imaging and Visualization
- Network Infrastructure Devices
- Internet/Intranet Server



## SPARCengine ULTRA AXi SPECIFICATIONS

### ARCHITECTURAL FEATURES

CPU	UltraSPARC-II i-series modules		
	270 MHz. 256 KB cache		
	300 MHz, 512 KB cache		
	333 MHz, 2 MB cache		
	360 MHz, 2 MB cache		
	360 MHz, 256 KB cache		
	440 MHz, 2 MB cache		
PCI bus	6 slots: 32bit@33 MHz		
Graphics slot	1 UPA-s for FFB card		
Memory	DRAM, 168 pin DIMMs, 3.3V, EDO 60nS		
	144 bits wide, 32 MB min, 1 GB max in 8 slots		
Boot ROM	1 MB Flash with OBP		
TOD/NVRAM	RTC, 8 KB RAM		
ON BOARD I/O			
Serial	2 sync/async ports on 1 DB25P connector		
	"Y" splitter cable needed to access second port		
Parallel port	IEEE1284 1 port DB25S connector		
SCSI	Dual Channel Ultra wide, 68 pin mini SCSI		
	Internal and external connectors		

10/100 Mb/sec RJ45 connector

Standard 3.5" FD on Internal connector Sun Keyboard/Mouse port Type5

PS2 Keyboard/PS2 Mouse on additional adapter

#### SYSTEM POWER SUPPLY (TYPICAL)

Power Supply	DC 250 W	
+3.3V	13.0 A	
+5V	20.0 A	
-5V	0.5 A	
+12V	8.0 A	
-12V	0.8 A	
ENVIRONMENTAL	Operating	Non-operating
Temperature (ambient)	0°C to 55°C	-40°C to 70°C
Air flow requirement	300 LFM at CPU heatsink	
1.		A /

Humidity	5% to 95% RH	5% to 95% RH
	non-condensing	non-condensing
Shock	6 G's, 11 ms	15 G's, 11 ms
	half sine wave, 10 shocks	half sine wave, 3 shocks
Vibration	0.20 G's, 5~500Hz	1.0 G's, 5~500Hz
	1 Octave/min, 2 sweeps	1 Octave/min, 2 sweeps
Altitude	10,000 ft (3,408 M)	40,000 ft (12,192 M)
MECHANICAL		

Board styleStandard ATXBoard size12" (wide) x 9.6" (length)

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