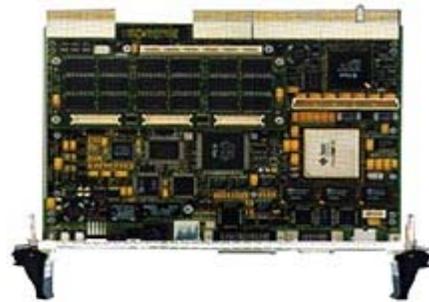# SPARC CPCI-520
## Fastest, most affordable UltraSPARC technology for CompactPCI

### Benefits

The SPARC CPCI-520™ is the first UltraSPARC-based product designed and developed specifically for embedded applications. Based on the UltraSPARC-IIi-Series, the CPCI-520 also features a CompactPCI interface, the new bus architecture that enables OEMs to bring products to market faster because it leverages the continuous evolution of desktop products.

With bandwidth rates unprecedented on conventional bus architectures, CompactPCI is ideal for intelligent peripherals, network management and other high-performance, I/O-intensive applications. Coupled with the cost attractive UltraSPARC-IIi processor, the result is an unparalleled price/performance ratio for applications running on Solaris-based embedded systems.

### UltraSPARC performance, low power consumption.

The CPCI-520's UltraSPARC-IIi processor performs at rates approaching 10 SPECint95 and 13 SPECfp95 at 300 MHz to provide telecom, datacom, and other compute-intensive applications the performance edge they need. And the UltraSPARC-IIi uses less power, stays cooler and performs more reliably in embedded environments than the UltraSPARC-I or UltraSPARC-II.

When combined with reduced die-size, integrated PCI bus interface and drastically reduced support logic, the result is unparalleled price/performance and superior thermal characteristics, I/O expansion and power efficiency.

### Reliability and serviceability.

The CPCI-520 offers the ruggedness and reliability of the Eurocard form factor, the worldwide standard for harsh environments. Its high durability, ease-of-serviceability and highly efficient thermal dissipation characteristics ease system design. And the CPCI-520's front or rear I/O functionality helps eliminate human error during routine service and maintenance calls. For optimum disk subsystem security and network communications, redundant I/O features such as dual fast SCSI-2 and dual Ethernet, increase system reliability through high-availability configurations.

CPCI-520 companion products make it easy to add functionality. The I/O-522 board features fast/wide SCSI and two on-board PMC slots compatible with hundreds of off-the-shelf PMC modules. The I/O-523 board with PCI bridge supports additional expansion of up to seven CompactPCI slots, for a system total of 14 user expansion slots.

### Software compatibility for high availability.

The CPCI-520 is fully compatible with Solaris 2.6 operating systems. Developers can take advantage of standard layered products from Sunsoft or thousands of off-the-shelf applications packages. The bottom line is enhanced operations control and resource