

RISC RC4X00 CPU BOARD

With PCI Backplane

Features

- ◆ Bi-endian 64 bit IDTRC4x00 with a clock frequency of 133 Mhz
- ◆ Easy integration in standard PC housings
- ◆ Flexible memory configuration from 16 MBytes to a maximum of 512 MBytes with ECC protection
- ◆ Integrates an SVGA graphic subsystem, an audio subsystem, a fast SCSI-2 and an Ethernet controller
- ◆ One passive backplane consisting of three expandable slots : 1 PCI, 1 PCI/EISA and 1 EISA
- ◆ Greater than 2.64 SPECint95
- ◆ Designed to run Microsoft Windows NT as well as Siemens Nixdorf's UNIX V.4 or any real time operating system
- ◆ ISO9001 quality certificate for develop, production and recycling

CPUs Supported

RC4700

Host Platforms

RM200 (Desktop - PCI bus)

Description

The new RISC RC4x00 CPU board from Siemens Nixdorf is the follow-up replacement of the current RISC R4600 CPU board. It is powered by a bi-endian 64 bit IDTRC4x00 with a clock frequency of 133 Mhz in 5 V or 3.3 V technology. This guarantees first-class performance at low price. The board is manufactured in the standard LPX form factor allowing easy integration in standard PC housings.

The CPU is connected by a powerful 528 MByte/s system bus with the system controller. This new gate array allows high performance data transfer between the processors, the main memory and the PCI bus.

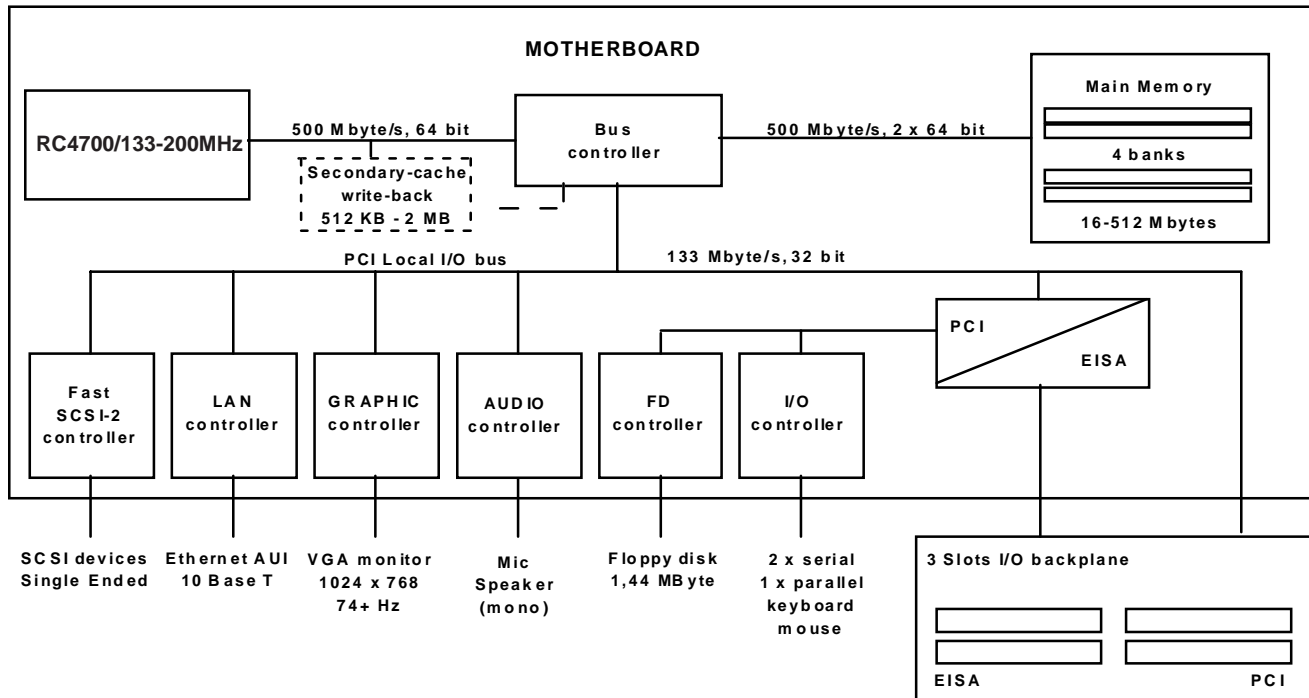
The main memory with ECC protection consists of four banks of 2 DIMMs each. This allows flexible memory configuration from 16 Mbytes to a maximum of 512 Mbytes.

The compact, all on-board design integrates an SVGA graphic subsystem, an audio subsystem, a fast SCSI-2 and an Ethernet controller. A wide range of standard interfaces offer excellent connectivity, the Centronics interface has been replaced by a Bitronics interface which allows bi-directional communication and a higher transfer rate to the peripherals. The board is available with one passive backplane consisting of three expansion slots : 1 PCI, 1 PCI/EISA and 1 EISA.

Performance measurement tests have shown ratings of over 2.64 SPECint95. Windows NT-specific benchmarks will show an even wider performance gap than UNIX SPECmarks.

The RISC RC4x00 CPU board is designed to run Microsoft Windows NT as well as Siemens Nixdorf's UNIX V.4, but it can also support any real-time operating system.

The leading-edge technology packaged in each CPU board is developed and manufactured by Siemens Nixdorf. Siemens Nixdorf is first Europe's IT manufacturer to be awarded the ISO9001 quality certificate for development, production and recycling.



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