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Find the *Abaco Systems / SBS cPro3 Sabre2* at our website: *Click HERE*

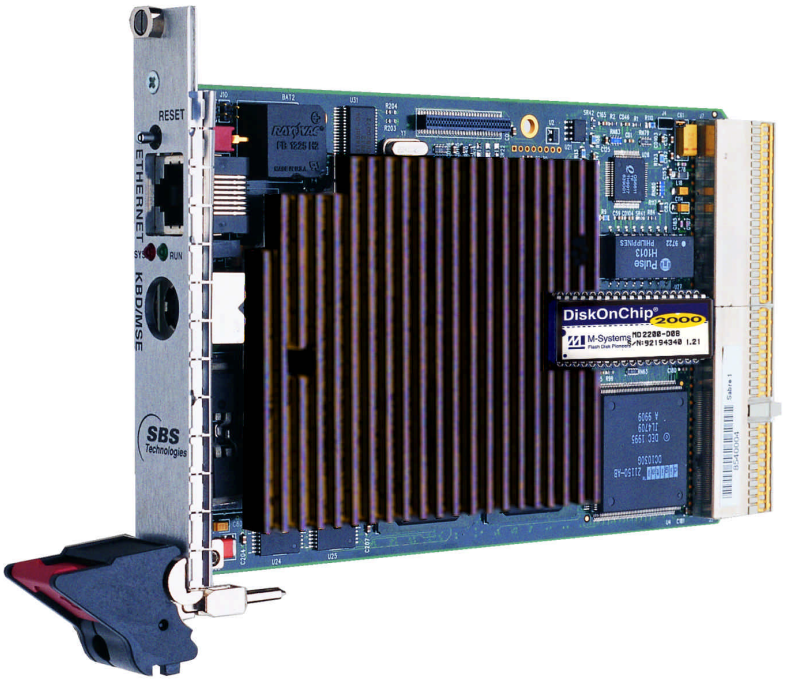
cPRO3

3U CompactPCI® Single Board Computer

SINGLE BOARD COMPUTERS

Features

- Processor speeds up to 333MHz
- Up to 128MB SDRAM Memory
- 512kB of Level 2 Cache
- 10/100BaseT (Twisted pair) Ethernet
- Floppy Controller Interface
- Primary IDE Hard Disk Interface
- Front Panel Mouse and Keyboard Port
- Rear Panel COM1, COM2, LPT1
- Rear Panel USB Interface
- Support for Flash Disk-On-Chip



The **cPRO3** 3U System Controller CompactPCI single board computer is an extension of the Proteus family of embedded computers from SBS Technologies. The cPRO3 is targeted for embedded applications and incorporates a Socket 7 processor; offering a variety of high level processor speeds. The cPRO3 is based on the CompactPCI (cPCI) specification of the PCI Inductrial Computers Manufacturing Group (PICMG).

The cPRO3 is compatible with software written for the IBM PC/AT®. Accordingly, it can run the wide variety of off-the-shelf software available for 80x86-based computers. Contact SBS technologies for information on driver-level support for common operating systems such as Wind River Systems VxWorks.

The cPRO3 has been designed to provide all the functionality of a complete PC/AT motherboard, such as keyboard and mouse ports, parallel port, serial ports (COM1/COM2 at TTL level via J2), USB port (J2), floppy and IDE. Additional features such as Ethernet are also provided. The cPRO3 incorporates an ALi Aladdin IV chipset that is completely compatible with industry standard PC hardware and software.

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Specifications

Processor
- Available with a choice of Socket 7 processors to allow optimum speed selection
- Supports AMD K6-2 processors, available for 333MHz operation

Level 2 cache
- 512kB of Synchronous Pipeline-Burst SRAM as level 2 Cache
- 66MHz system bus clock
- 512kB Cache size is optimum for up to 128MB of system memory
- cPRO3 Cache provides hit rates of 3-1-1-1 for read and write cycles and 3-1-1-1-1-1-1-1 for back-to-back read and write cycles

System Memory
- Available from the factory with up to 128MB of SDRAM Memory

PCI Bus
- PCI Bus Controller provided by Aladdin IV chipset
- 33MHz clock speed

Floppy Interfaces
- Aladdin IV chipset integrated floppy disk controller
- Provided through XB_IDE2 connector
- Capable of controlling one or two 1.44MB 3.5" floppy disk drives

Enhanced IDE Interface
- Primary PCI IDE Interface is provided
- Onboard EIDE controller via ALi Aladdin IV chipset
- Provided through XB_IDE2 connector

Ethernet
- Incorporates a fully IEEE 802.3 compatible Ethernet interface
- PCI resident DEC 21143 Ethernet controller
- Capable of Master operstions over the PCI bus
- 10/100BaseT physical interface provided through RJ45 front panel connector or rear cPCI connector J2

Serial Ports
- ALi Aladdin M1543 Super IO controller
- Two 16550 compatible COM ports at TTL levels
- RxD, TxD, RTS, CTS, DSR, DTR, DCD, RI signals provided
- Available at TTL levels through backplane, or via optional TB_cPRO3 board for COM1/COM2 RS-232 and software selectable COM2 RS-422/485

Parallel Interface
- Provided by ALi Aladdin M1543 Super IO controller
- Centronics Parallel, PS/2 Bidirectional
- Buffered parallel port available through backplane or via optional TB_cPRO3 board

Keyboard/Mouse Interface
- Functions provided by ALi Aladdin M1543 Super IO controller
- Microsoft Mouse® and PS/2 style Keyboard interfaces
- Both functions resident in a single 6-pin connector
- Keyboard default operation, requires supplied Y-connector for Mouse operation
- 6-pin circular mini-DIN connector

Power Requirements
- +5VDC @ 2-5A (Memory and CPU dependent)
- +3,3VDC @ 400mA (Max.)
- 11.5 - 25W (Memory and CPU dependent)

Physical
- 100mm x 160mm (3.94 in. x 6.30 in.) 3U
- Multi-Layer Printed Circuit Board

Temperature
- 0°C to +55°C Inlet air, Operating Temperature
- -40°C to +85°C, Non-Operating
- Forced Air 100LFM minimum required
- Extended Temperature versions available (Contact factory for additional information)

Humidity
- 10 to 95% Relative Humidity, Non-Condensing

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Shock

- 6G Max. Operating, 10G Max. Non-Operating

XB_IDE2 Transition Board

- The XB_IDE2 Transition Board comes standard with the cPRO3 single board computer, and is intended primarily as a development tool
- The XB_IDE2 mates with onboard connector J4
- Provides 40-pin IDE connector, P1
- Provides 34-pin Floppy drive connector, P2
- Physically extends into the space of adjacent card slot

TB_cPRO3 Transition Board

- TB_cPRO3 is an option that may be ordered to enhance the I/O capabilities of the cPRO3
- Provides RS-232 compatible signal levels for COM1 and COM2 serial ports
- Jumper selectable enhancement for RS-422 or RS-485 operation of the COM2 port
- Provides Centronics Parallel port through a standard 26-pin connector
- Provides two USB ports through a 10-pin connector
- Plugs into the rear of the cPCI backplane connector J2
- Contact the factory for ordering information

Ordering Information

cPRO3 Embedded PC

cPRO3/*-166	166MHz Pentium® Processor
cPRO3/*-233	233MHz Pentium® Processor
cPRO3/*-333	333Mhz AMD K6 Processor

Options and Accessories

FDOCk-XX	Flash (Disk-on-Chip) - Available in capacities from 2MB to 144MB
TB_cPRO3	Transition Board Option for P2 Backplane I/O

Software Options

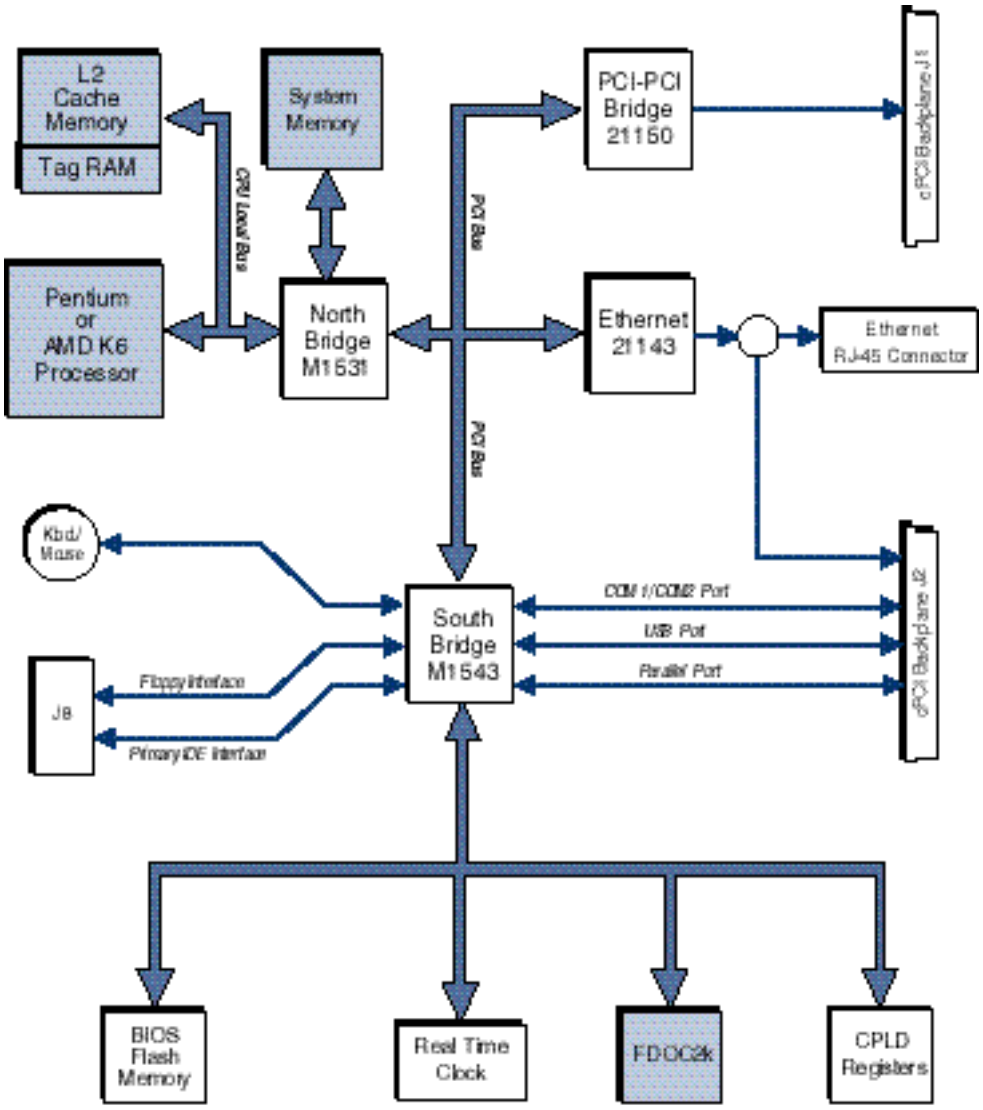
WindowsNT-cPRO3	Microsoft Windows NT 4.0
Windows2000-cPRO3	Microsoft Windows 2000
LinuxSP-cPRO3	Linux Support Package
VxWorksSP-cPRO3	VxWorks Support Package
QNXSP-cPRO3	QNX Support Package

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cPRO3

Block Diagram



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