

NxC-301 – Technical Data



- 3U CompactPCI industrial single board computer
- Pentium processors with MMX technology and AMD K6-II to 300 MHz
- Integrated SXGA CRT Controller
- Up to 128 MB of EDO or SDRAM
- Onboard 10/100Base-T Ethernet
- Power and thermal management



• Bus Interface

CompactPCI Bus (32-bit, 33 MHz) P1 and P2

• CPU

Intel Socket 7 Pentium processors to 200 MHz

Intel Pentium processors with MMX technology to 266 MHz

AMD K6-II to 300 MHz

SiS 5597 chipset

• L2 Cache

512 kB synchronous pipelined burst SRAM

• Memory

One, 144-pin SO-DIMM socket

Up to 128 MB EDO or SDRAM (3.3V)

• Data Path

64-bit on CPU bus

32-bit on PCI bus

• I/O

Serial

Two RS-232 ports configurable as COM1, COM2, COM3 or COM4 on IRQ3/IRQ4

Parallel

One bi-directional port, configurable as LPT1, LPT2 or LPT3 with support for PC/XT, AT, PS/2 and EPP

Hard Disk

PCI EIDE, support for 2 drives in a master/slave configuration

Supports Ultra DMA/3

Floppy Disk

Support for one, 2.88 MB floppy drive

Ethernet

10/100Base-T (auto detection)

Video

PCI SXGA CRT video controller integrated in chip set (UMA)

Resolution to 1600x1200x256 colors or 1280x1024x64k colors

8-bit SPI mode 1.2 supporting video on graphics overlays

Supports Multimedia Design Guide Rev. 1.0

• Clock/Calendar

Real-time clock with battery backup

• Supervisory Utilities

Watchdog timer

Temperature sensor

• BIOS

Award BIOS in Flash EPROM

Programmable CPU and memory wait states

BIOS shadowing in RAM

Power management features

Booting via Ethernet

Software upgradeable

• External Connectors

Floppy disk: Flex 26

COM1, COM2 and Parallel port: individual shrouded headers

PCI-EIDE hard disk: 44-pin 2 mm header

PS/2 keyboard/mouse: combo mini DIN

10/100Base-T: RJ-45 jack

PC/104: standard header

• Operating Temperature

0° to 60°C (with airflow)

Case temperature: 70°C

Extended temperature range available

• Noncondensing Relative Humidity

0% to 95% @ 40°C

• Electrical/Mechanical

Conforms to the PCI Rev.2.1 and PICMG

Rev.2.0 electrical and mechanical specifications

• Supply Voltage/Current

Vcc = +5 V ± 5%

Icc typ.* = 4.0A

Icc susp.* = 1.0A

* figures vary with CPU type installed

• Board Dimensions

6.3 in. by 3.94 in.

160 mm by 100 mm

Height: CPU/fan (Sunon 5V Super CPU

Cooler): 1 in. (25 mm)

• MTBF

> 100,000 hrs (MIL-HDBK-217F) (operating ambient temperature 20°C)

• Operating System Compatibility

PC and MS-DOS™

Windows 3.X™

Windows NT™

Windows 95/98™

OS/2 Warp™

SCO UNIX™

QNX™

NOVELL™

UnixWARE™

• Warranty Period

Two years

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