

# 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™

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