

NxL - 400 - Technical Data



- **Ultra Low Power Pentium MMX to 266 MHz or AMD K6 to 300MHz Industrial Mobile SBC**

- **Smart Battery technology for optimum battery usage and life span**

- **Ideal for building mobile computers**
- **Multimedia: sound and voice**
- **Removable Media**



· **Bus Interface**

PCMCIA: two dual-Port PCI-to-PCI Card™ /CardBus Controller unit

· **CPU Type & Speed**

Low Power 1.9 V Pentium®, SPGA package
133,166, 233 MHz Pentium or 300 MHz AMD K6

· **Memory**

DRAM 3.3 V, Self Refreshing Low Power EDO
L2 Cache: 512 kB Synchronous Pipelined Burst SRAM

· **Video**

Chips & Technologies® 65550 graphic processor
Resolution: 1024 x 768 x 256 colors
32-bit graphics engine with BitBLT
2 MB, 3.3 V, EDO DRAM
Simultaneous CRT / Flat Panel capability

· **I/O**

Serial

Supports 4 UARTs COM1-COM4
Software compatible with NS16C550
COM1, 3 & 4 are RS232 standard
COM2 is RS232 or 110Kbits/s Infrared
Accessible via onboard headers

Parallel

1 bi-directional port (LPT1) with PC/XT, AT, PS/2, EPP and ECP operations

Hard Disk

Onboard 2.5" low power Hard Disk
Enhanced IDE

Onboard Flash Disk up to 96 MB

Floppy Disk

Supports two 3.5" floppy disks from 720 kB to 1.44 MB

Software compatible with N82077

Brought to docking and onboard connectors

PCMCIA

Provides PC Card™ / CARDBUS supports
Supports 3.3 V or 5 V cards
4 TYPE I or II slots, or 2 TYPE III slots
Texas Instruments PCI 1220 Controller

· **Keyboard and Mouse**

Supports Mini DIN AT keyboard and PS/2 connector

· **Clock & Calendar**

Real-time clock with battery backup

· **Sound, Audio & Voice**

Sound Blaster™ and Windows Sound System (WSS) compatible hardware
Mic-in and stereo Line-out through docking, shrouded header or 3.5 mm diameter phone jack
PC speaker output

· **BIOS and Software Features**

Award MobilePRO™
Chips & Technologies Video BIOS
Boot Block Flash BIOS
Advanced Power Management
Kontron Proprietary Power / Thermal Management
Full On, Doze, Sleep and Suspend Modes
Supports SMI / SMM Power Management
Supports SMBus to battery
Plug & Play peripheral support

External Connectors

Power Input

4-pin, 2.54 mm header or 6.4 mm diameter Power Jack

Battery

6-pin, 2.54 mm header

Docking

200-pin R/A Industry Standard
Incl. Secondary IDE Port, Keyboard, Mouse, COM1&2, VGA, Floppy, USB, LPT1, Power, Sound

Serial Ports (4)

10-pin, 2.54 mm shrouded header

Mouse Ports

20-pin, 2.54 mm shrouded header

SVGA output

20-pin, 2.54 mm shrouded header

Flat Panel

50-pin, 2.54 mm straight header

Audio Port

10-pin, 2.54 mm shrouded header

PCMCIA Ports (2)

136-pin receptacle

· **Board Dimensions**

8.50 in. by 6.10 in.
215.9 mm by 154.9 mm

· **Operating Temperature**

0°-60° C, ambient, assuming adequate cooling

· **Non-Condensing Relative Humidity**

5% to 95%

· **Electrical / Mechanical**

PCI specification Rev. 2.1 (Electrical)
Compliant with 1995 PC Card Standard

· **Input Power**

12 - 18 VDC /12 W full operation
12 VDC: Duracell® Smart Battery DR36 or equivalent

· **Battery Operation**

Operating Time

6 hours typical

Actual operating time depends on power management modes invoked utilizing 43 Wh-rated battery

Accepts 12 V Lithium-ion (Li Ion) and Nickel Metal Hydride (NiMH) batteries

Smart Charging

Charging

<3 hours, smart profile, continuous with full operation

Source

12 - 18 VDC input power

Charging Parameters

Temperature, current and voltage conditions

· **MTBF**

>60,000 hours

· **Operating System Compatibility**

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Windows NT™

Windows 95/98™

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