

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**
PC and MS-DOS™
Windows NT™
Windows 95/98™
Consult factory for other Operating Systems
- **Warranty Period**
Two years

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