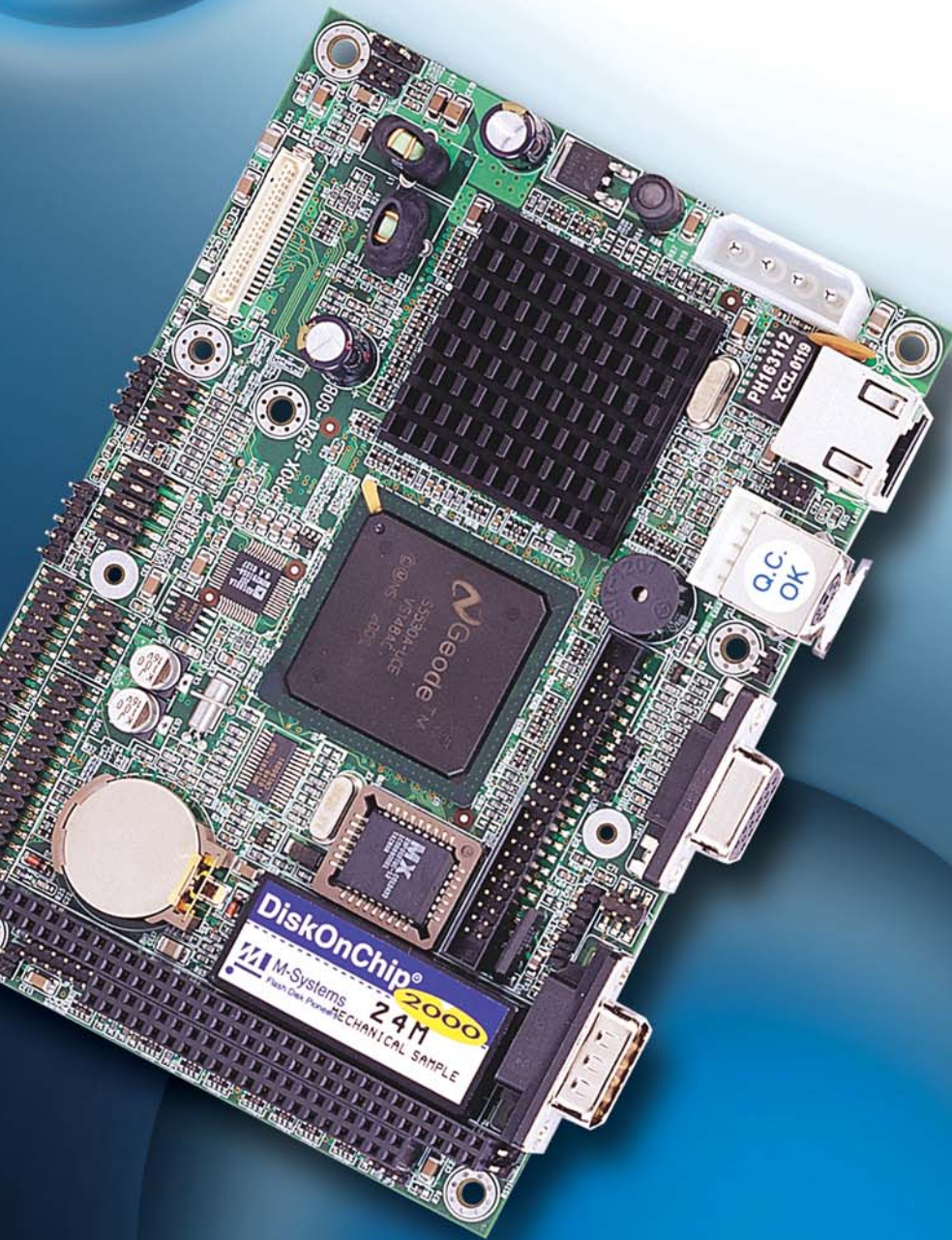# SBC

Prox-1520
NS-Geode™ Mini Board with VGA/Sound/LAN

Prox-1520 is a mini board built-in with NS Geode™ GX1 low power CPU, VGA, sound, LAN and other enhanced I/O interfaces. It is designed for systems required compact board controllers with multi-functions.

Based on NS Geode™ GX1 and Geode™ CS5530 chipset, the mini board has VGA function on board to support CRT and 18-bit TFT LCD display. It also supports one 144-pin SO-DIMM up to 128MB of memory.

Embedded with Realtek RTL8139C chip, the mini board can support 10/100 Base-TX Ethernet.

Besides the VGA and LAN, the Prox-1520 is also equipped with an enhanced AD1881 sound chip providing 16-bit stereo full-duplex Codec.

The 32-pin SSD socket is built on board to support Disk-on-chip up to 144MB. In addition, the mini board has 1 EIDE, 2 USB, 1 parallel, and 2 COM ports, one of which can be configured as RS-232/422 or RS-485, and PC/104 Bus interface.

With its elaborate and low power design, the Prox-1520 is sure to be your most economical choice.

PROTECH SYSTEMS
It's a right choice

ISO CERTIFIED
9001 | 14001

Prox-1520

NS Geode™ Mini Board with VGA/Sound/LAN

LAN1 PS1 VGA1 COM1 RST1 J6 HDL1 KBL1 EXKB1 BUZ1 IDE1 SSD BIOS PC104 Geode GX1 Geode CS 5530 Battery LCD1 SOUND1 USB1 COM2 FDD1 IR1 JP1 PRT1
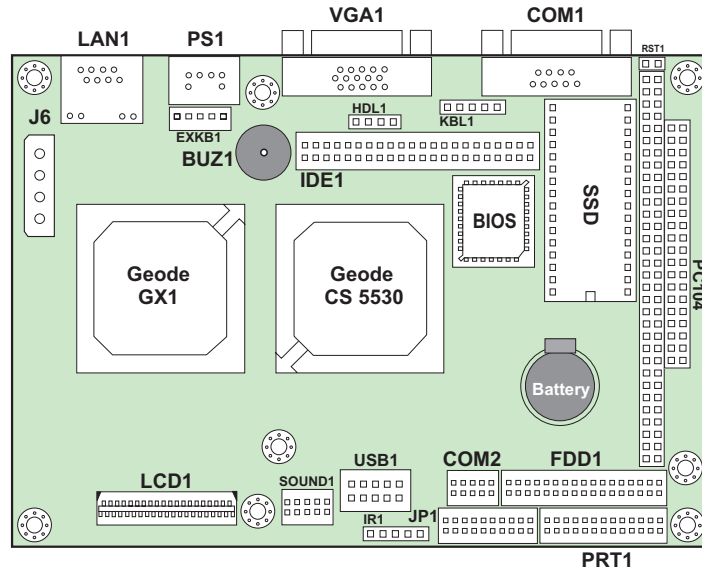
Specifications	
CPU Type	NS Geode™ GX1 low power CPU
CPU Voltage	2.0V
CPU Frequency	300MHz
Chipset	NS Geode™ CS5530
DRAM	1 x 144-pin SO-DIMM up to 128MB
Cache	Built-in CPU
BIOS	Phoenix-Award PnP BIOS with VGA BIOS, Flash ROM
I/O Chipset	Winbond 83977F
IDE Interface	1 x EIDE
FDD Interface	1
Serial Port	2 x 16550 UART, COM2 for RS232/422/485
Parallel Port	1 x parallel (SPP/EPP/ECP)
Watchdog	16 level Watchdog Timer
CMOS	Built-in W83977F
Keyboard	Mini DIN connector & external connector
Mouse	Mini DIN connector (selectable w/ keyboard/Y-cable)
Speaker	Internal buzzer & external speaker connector
VGA	Built-in CS5530, 1.5~4MB shared memory for CRT & 18-bit TFT LCD

LAN	RTL8139C, 10/100 Base-TX Ethernet 1 x RJ-45 Jack on board
Sound	AD1881, AC '97 Codec
SSD	32-pin socket supports DOC up to 144MB
USB	2 x USB 1.1
Bus Interface	PC/104 Bus
PowerSupply	Support AT/ATX power 4-pin power connector on board
Power Requirement	+5V
Green Function	Controlled by hardware & software
Mechanical and Environment	
Operation Temperature	0℃ ~ 60℃
Storage Temperature	-40℃ ~ 85℃
Humidity	20~90%
Vibration	2.5g acceleration over 5 to 2000Hz sine wave(p-p), 1 oct/min sine sweep
Shock	30g, 11 msec duration, half-sine shock pulse
Dimension	102mm x 145mm, 4.02" x 5.71"

PERFORMANCE & POWER CONSUMPTION

CPU Type	Business Winstone 99	CPU Mark 99	Business Graphics WinMark 99	Power Consumption +5V
NS Geode™ GX1-300MHz	9.95	9.58	30.2	1.5A

PROTECH SYSTEMS

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