

ULTRA LOW POWER EMBEDDED COMPUTER for POS terminals

POS

SBC W/ 200/300 MHz CPU, LAN, CRT/LCD IF, TOUCH SCREEN IF, AUDIO

The Shortest path from ideas...to product.

Features

- Ultra low power, fanless operation up to 300 MHz
- Over 250,000 hours MTBF
- 5 year product availability guarantee
- Soldered on-board SDRAM up to 128 MB
- CRT/LCD interface up to 4 MB display memory
- Battery Backed 512 KB SRAM
- 10/100Base-T Ethernet interface
- 6 serial ports, dual USB, 512 Bytes EEPROM, 64-bit unique electronic ID
- Touch screen interface

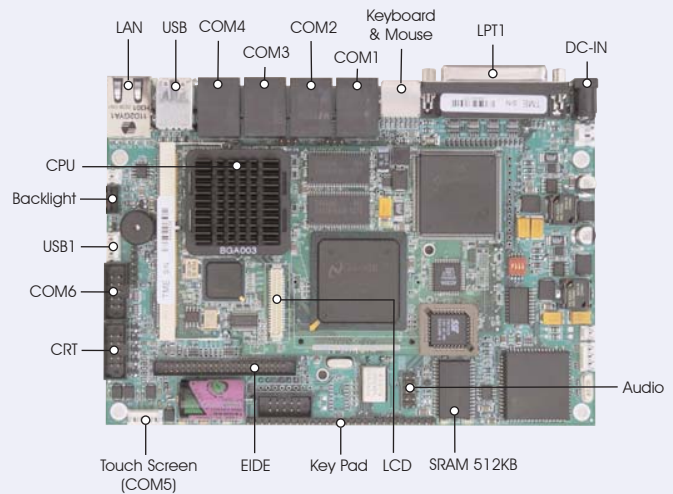
Applications

- Robotic
- Medical
- Test & Measurement
- Transportation
- Avionics
- Mil/Aerospace
- e-Kiosks
- Industrial Automation
- Inventory Management
- Point Of Sale Terminal

TOUCH IF

6 X SERIAL

KEY PAD IF



Technical Data

System

CPU	Embedded NS Geode GX1 200 to 300 MHz low power processor (fanless)
SYSTEM MEMORY	Soldered on-board 32, 64 or 128 MB SDRAM
CHIPSET	NS CS5530
BIOS	GS customized emdedded BIOS on 256 KB flash memory
SSD	Supports CompactFlash™ card up to 512 MB
BUS	PCI (33 MHz) / ISA (8.33 MHz)
POWER CONSUMPTION	Typical: 5 V @ 1.2 A [200 MHz CPU]
SIZE	7.00" x 4.75"
TEMPERATURE	-40°C ~ 85°C operating
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing

I/O

STANDARD I/O	EIDE (Ultra DMA33), 1 x K/B, 1 x Mouse, Touch ID 5 x RS-232, 1 x LPT, 2 USB ports (USB 1.0 compliant)
NETWORK	10/100BASE-T (Intel 82559ER)

Display

CHIPSET	NS CS5530
MEMORY SIZE	1-4 MB UMA share memory
RESOLUTION	Supports up to 1024x768 @ 16 bpp (60 Hz)
LCD INTERFACE	18-bit TFT panels up to SVGA resolution

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Features Description

CPU	<p>Embedded low power NS GX1 200 to 300 MHz processor L1 Cache - 16 KB write-back data Five-stage pipelined integer unit Integrated Floating Point Unit (FPU) Memory Management Unit (MMU) Supports Intel's MMX instruction set extension for multimedia acceleration Core voltage - 1.8V - 2.2V Passive heatsink</p>
Chipset	NS Geode GX1 CS5530A embedded chipset
System BUS	<p>66/100 MHz system bus frequency PCI: 33 MHz (Internal) ISA: 8 MHz (Internal)</p>
BIOS	System and video BIOS with TME extensions in 256 KB flash device programmable on-board
Memory	On-board memory banks support 3.3V SDRAM 32 to 128 MB (PC-100 and PC-133)
Flash / Disk Interface	Compact Flash socket for on-board flash disk up to 512 MB
Video Interface	<p>NS CS5530 with 1-4 MB UMA share memory CRT and LCD up to 1024x768@16-bit color resolution 2D Graphics Accelerator Supports LCD/TFT/STN/EL 3.3V or 5V displays Supports up to 18-bit LCD on TTL interface</p>
Network Interface	<p>Intel 82559ER chipset IEEE 802.3u 100 BASE-T Fast Ethernet</p>
Audio Interface	AC'97 V 2.1 Audio
EIDE Interface	<p>Enhanced IDE interface supports up to two IDE devices. PIO Mode 4 transfers at up to 16 MB/sec. Support for Ultra DMA/33 synchronous DMA mode transfers at up to 33 MB/sec</p>
COM1- 6 Interface / Six serial ports	RS-232, 16C550 compatible, COM5 used by Touch screen IF, Optional RS485 on COM6
LPT Interface	Bi-directional/EPP/ECP compatible
USB Interface	Two USB ports
Other Embedded Features	<p>Electronic ID APM (Advanced Power Management) for Legacy power management Serial EEPROM - supports batteryless boot capability 128 Bytes EEPROM available for OEM use Battery Backed 512 KB SRAM ESD 10,000V MTBF 250,000 Hours Touch screen interface on COM5 Key Pad interfaces Operated from +2V DC-IN</p>

Ordering Information

POS-P1L-30-1-C	POS-P1 WITH 300MHZ CPU, 64 MB SDRAM, 5 RS232, TOUCH IF, USB, LAN, -0°C TO +75°C OPERATING TEMPERATURE
POS-P1L-30-2-C	POS-P1 WITH 300MHZ CPU, 128 MB SDRAM, 5 RS232, TOUCH IF, USB, LAN, -0°C TO +75°C OPERATING TEMPERATURE
POS-P1L-30-3-C	POS-P1 WITH 300MHZ CPU, 128 MB SDRAM, 512K NVRAM, 5 X RS232, TOUCH IF, USB, LAN, -0°C TO +75°C OPERATING TEMPERATURE
POS-P1L-30-3-E	POS-P1 WITH 300MHZ CPU, 128 MB SDRAM, 512K NVRAM, 5 X RS232, TOUCH IF, USB, LAN, --40°C TO +85°C OPERATING TEMPERATURE

CONTACT TME FOR OTHER CONFIGURATIONS

