

**Pentium class SBC designed for  
Mobile and Outdoor applications**  
-40°C to +85°C Operating Temp.  
operated from +24V DC

# Gx105

**200/300 MHz SBC W/LAN, KEYPAD IF, CF, AUDIO, PC-CARD SLOT**

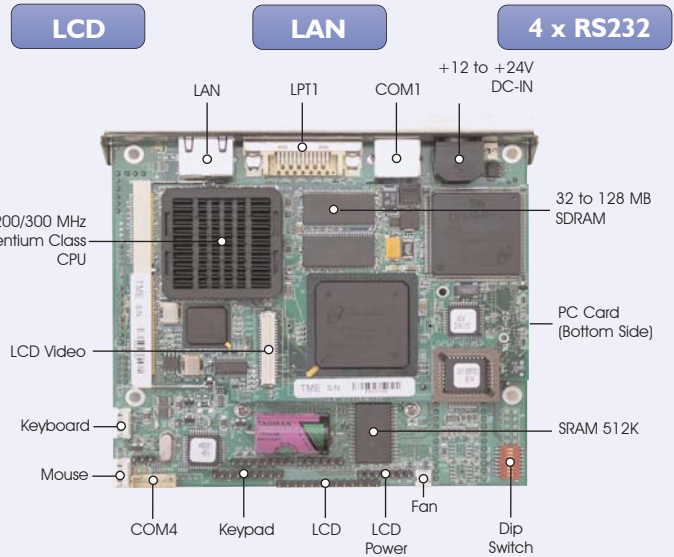
The Shortest path from ideas...to product.

## 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
- Key pad interface
- 512 KB SRAM Battery Backed
- 10/100Base-T Ethernet interface
- 4 serial ports, dual USB, 512 Bytes EEPROM, 64-bit unique electronic ID
- Single-Slot PC Card interface

## Applications

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



## 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: 24 V @ 0.35 A [200 MHz CPU]
SIZE	5.187" x 4.625"
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, 4 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

<b>CPU</b>	<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>
<b>Chipset</b>	NS Geode GX1 CS5530A embedded chipset
<b>System BUS</b>	<p>66/100 MHz system bus frequency                      PCI: 33 MHz (Internal only)                      ISA: 8.33 MHz ( Internal only)</p>
<b>BIOS</b>	System and video BIOS with TME extensions in 256 KB flash device programmable on-board
<b>Memory</b>	On-board memory banks support 3.3V SDRAM 32 to 128 MB (PC-100 and PC-133)
<b>Flash / Disk Interface</b>	Compact Flash socket for on-board flash disk up to 512 MB
<b>Video Interface</b>	<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>
<b>Network Interface</b>	<p>Intel 82559ER chipset                      IEEE 802.3u 100 BASE-T Fast Ethernet</p>
<b>PC Card Interface</b>	TI PCI1225 PCI-to-PC Card Controller supports one PC Card socket
<b>EIDE Interface</b>	<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>
<b>COM1-4 Interface</b>	RS-232, 16C550 compatible
<b>LPT Interface</b>	Bi-directional/EPP/ECP compatible
<b>USB Interface</b>	Two USB ports
<b>Other Embedded Features</b>	<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</p>

## Ordering Information

GX105L-20-1-C	GX105 WITH 200MHZ CPU, 64 MB SDRAM, 3 RS232, 512K NVRAM, PC-CARD SLOT, -0°C TO +75°C OPERATING TEMPERATURE
GX105L-30-1-C	GX105 WITH 300MHZ CPU, 64 MB SDRAM, 4 RS232, 512K NVRAM, LAN, USB, PC-CARD SLOTS, -0°C TO +65°C OPERATING TEMPERATURE
GX105L-20-1-E	GX105 WITH 200MHZ CPU, 128 MB SDRAM, 4 RS232, 512K NVRAM, USB, PC-CARD SLOTS, -40°C TO +85°C OPERATING TEMPERATURE
GX105L-30-2-C	GX105 WITH 300MHZ CPU, 128 MB SDRAM, 4 RS232, 512K NVRAM, USB, PC-CARD SLOTS, -0°C TO +65°C OPERATING TEMPERATURE

CONTACT TME FOR OTHER CONFIGURATIONS

