

## IPC Products

- Full-size CPU Card
- Half-size CPU Card
- 3.25" Embedded SBC
- 5.25" Embedded SBC
- Industrial Motherboard
- Special Form Factor
- Control board
- Barebone System
- ODM/OEM



- NS GX1-300MHz low power processor
- Supports CRT and 18-bit TFT panels
- 32-bit PCI-bus 100/10 Mbps Ethernet interface
- 4 serial ports: Three RS-232 and one RS-232/422/485
- PC/104 connector for flexible expansion capabilities
- Two USB ports, one IrDA, one parallel port, and one keyboard/PS/2 mouse port
- One FDD Connector and one IDE HDD connector

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### General Functions

CPU	NS GX1-300MHz low power processor
BIOS	Award® 256KB Flash BIOS
Chipset	NS CX5530A
I/O Chipset	Dual Winbond W83977
Memory	Onboard one 168-pin DIMM socket support up to 128Mbytes SDRAM
Enhanced IDE	Support up to two IDE devices. (Ultra DMA 33)
FDD interface	Support up to two floppy disk drives
Parallel port	Support SPP/ECP/EPP
Serial port	Three RS-232 and one RS-232/422/485 serial ports.
IR interface	Support one IrDA Tx/Rx header
KB/Mouse connector	Support PS/2 keyboard and mouse.
USB connectors	Support dual USB ports
Battery	Lithium battery for data retention of up to 10 years (in normal condition)
Watchdog Timer	Support software selectable timeout interval.
PC/104 Connector	One PC/104 connector for ISA expansion board
Bus Interface	ISA bus
Power management	APM 1.1 compliant

### Flat Panel/CRT Interface

Chipset	NS CX5530A
Display memory	Share system memory 1~4MB
Display type	Simultaneous supports CRT and 18-bit TFT LCD interface.
Resolution	Flat panel displays support up to 1024 x 768 @ 18bpp TFT panel and CRT monitors up to 1024 x 768 @ 16bpp or 1280 x 1024 @ 8bpp

### Ethernet Interface

Chipset	Realtek® RTL8139 100Base-TX Fast Ethernet controller
Ethernet interface	PCI 100/10 Mbps Ethernet controller. IEEE 802.3U protocol compatible

<b>SSD Interface</b>	One 50-pin CompactFlash™ socket & one 32-pin DiskOnChip socket
<b>Sound Interface (option)</b>	AC 97 codec option

#### **Mechanical and Environmental**

Power supply voltage	+5V (4.75V to 5.25V), +12V (11.4V to 12.6V)
Max. power requirements	2A @ 5 V, 0.6 A @ +12 V
Operating temperature	32 to 140°F (0 to 60°C)
Board size	7.1"(L)x5"(W) (180mmx128mm)
Weight	0.6 lb. (0.3 Kg) (bare)

#### **Ordering Information**

WCP-640	Socket 370 Half-size CPU card, with LCD/CRT & One 100/10 Ethernet
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