

IPC Products

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

AW-O672

Special Form Factor

GX1-300MHz Low Power Processor LPX Form Factor with VGA/LCD, LAN, Audio & SSD



- NS GX1-300MHz low power processor
- Supports CRT and 18-bit TFT panel
- 32-bit PCI-bus 10/100Mbps Ethernet interface
- Supports AC-97 audio interface
- 4 serial ports: Three RS-232 and one RS-232/422/485
- EISA connector for flexible PCI & ISA expansion capabilities
- Supports WOL and MODEM ring-in wakeup function

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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	One 168-pin DIMM Socket supports up to 128MB & 16MB SDRAM on board
Enhanced IDE	Support up to four IDE devices (Ultra DMA 33)
FDD interface	Support 34-pin header connector up to two floppy disk drives
Parallel port	Two bi-directional parallel ports, support SPP/ECP/EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports +5V/+12V power selectable
IR interface	Support one IrDA Tx/Rx header
Keyboard connector	6-pin Mini-DIN & internal header
Mouse connector	6-pin Mini-DIN & internal header
USB connector	Support dual USB ports
Battery	Lithium battery for data retention up to 10 years and CMOS EPROM backup (under normal condition)
Watchdog Timer	Can generate a system reset, or IRQ11; support software selectable timeout interval.
EISA connector	One EISA bus connector support ISA/PCI signals
Power Input	Support ATX and AT power supply connectors.
Digital I/O	Eight digital output and eight TTL input.
SMBus connector	6-pin header support SMBus LCD interface

Flat Panel/CRT Interface

Chipset	NS CX5530A
Display memory	Share system memory 1-4MB
Display type	Simultaneous support CRT and 18-bit TFT LCD interface

Flat Panel/CRT Interface (Option)

Chipset	C&T 69000 VGA chip
Display memory	Built-in 2MB SDRAM
Display type	Display CRT and Flat Panel simultaneously

PCI Sound Interface

Chipset	AC 97 codec
Audio controller	SoundBlaster Pro Hardware and Direct Sound Ready AC97 Digital Audio
Audio interface	Mic in, Line in, Speaker out and CD audio in
Software Driver	Supports for Windows 95, Windows 98 and windows NT

Ethernet Interface

Chipset	Realtek ® RTL8139C
Ethernet interface	PCI 10/100Mbps Ethernet controller.

SSD Interface One 50-pin CompactFlash™ socket & one 32-pin DiskOnChip® socket

Mechanical and Environmental

Power supply voltage	+5V(4.75V to 5.25V), +12V(11.4V to 12.6V)
Max. power requirements	2A @ 5 V, 200mA@ +12V
Operating temperature	32° to 140°F (0 to 60°C)
Board size	8.7"(L) x 9.25"(W) (220mm x 235mm)

Ordering Information

AW-O672R11D	GX1-300MHz CPU, LCD/CRT, LAN
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AW-O672R1CD

SGX1-300MHz CPU, C&T69000 LCD/CRT, LAN