

Industrial Single Board Computer

Half-size ISA Embedded GX1 CPU Card

HE-842

Half-size ISA-bus Embedded NS GX1 CPU Card
with Onboard GX1-300 MHz CPU, 32/64 MB SDRAM
LVDS/TTL TFT LCD/CRT SVGA, 10/100 Mbps LAN
AC97 3D Audio, DiskOnChip and PC/104 Interfaces



Form Factor	Half-size ISA-bus CPU Card / Slot PC
CPU	Onboard embedded NS Geode GX1-300 MHz CPU Ultra low power consumption for fan free applications Optional onboard GX1-200/233/266 MHz CPU for OEM projects
Memory	Onboard optional 64 MBytes SDRAM One 144-pin SODIMM supports up to 256 MB SDRAM Total memory capacity up to 384 MB SDRAM
Chipset	NS Geode CS5530A
BIOS	Phoenix-Award 2Mb PnP flash BIOS
Watchdog Timer	Generates NMI or system reset watchdog timer
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Expansive Interface	PC/104 supports 8/16-bit ISA PC/104 embedded peripheral modules
PCI Enhanced IDE	Dual UltraATA/33 IDE channels up to 4 ATAPI devices One 40-pin IDE1 and one 44-pin IDE2 connector Jumper selectable +5V power pin on IDE1 for DiskOnModule embedded flash disk
VGA Interface	NS Geode CS5530A VGA controller with 2D engine Up to 4 MBytes of video memory shared with system memory 18-bit TFT LCD / flat panel / CRT display, up to 1280 x 1024 (SXGA) Onboard LVDS interface with 20 to 85 MHz of scalable bandwidth
LAN Interface	10/100 Mbps LAN interfaces, IEEE802.3U compliant with RTL8100B
Audio Interface	AC97 3D audio interface with line-in, line-out, CD-in and Mic-in
Multi-I/O Port	2 x COM ports with 1 x RS-232 and 1 x RS-232/422/485 serial port 2 x USB, 1 x SPP/EPP/ECP parallel port, 1 x IrDA, 1 x Floppy port 1 x external PS/2 keyboard / mouse port, 1 x internal AT keyboard port
Solid State Disk	Onboard 32-pin DIP JEDEC DiskOnChip socket Flash memory capacity up to 576 MB with ECC/EDC data protection
Environment	Power Requirement: +5V, +12V DC Board Dimension (L x W): 185 x 122 mm Operation Temperature: 0 ~ 60°C (32 ~ 140°F)
Ordering Code	HE-842VL-64 Half-size ISA-bus Embedded GX1 CPU Card with Embedded NS GX1 300 MHz CPU, Onboard 64 MB SDRAM LVDS/TTL TFT LCD/ CRT SVGA, LAN, Audio, DOC and PC/104

Online product information detail and updates are available at: <http://www.commell.com.tw>