

Industrial Single Board Computer



Embedded GX1 Solution with onboard SDRAM

LE-540

**5.25" Drive-size EBX Embedded GX1 Miniboard
Onboard NS GX1 300 MHz CPU and 64 MB SDRAM
LVDS/TTL TFT/DSTN LCD/CRT SVGA, LAN, Audio
4 COM, 8-bit GPIO Port, PC/104 Interface
and CompactFlash Flash Disk Socket**



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|----------------------------|---|
| Form Factor | 5.25" Drive-size Embedded Miniboard Computer, EBX compliant |
| CPU | Onboard NSGeode GX1 300 MHz embedded low power CPU, x86 compliant Optional GX1 CPU on other speed (200/233/266 MHz) for OEM project |
| Memory | Onboard 64 Mbytes SDRAM and one 168-pin DIMM socket up to 256 MBytes SDRAM, Total system memory capacity up to 320 MBytes SDRAM |
| Chipset | NS Geode GX1 CS5530Achipset |
| Watchdog Timer | System reset watchdog timer with 32 sec. to 256 min. of timeout value |
| Real Time Clock | NS Geode GX1 CS5530A chipset built-in RTC with onboard lithium battery |
| Expansive Interface | One 32-bit PCI slot and one 16-bit ISA-based PC/104 connector |
| PCI Enhanced IDE | One UltraATA/33 bus master IDE channels up to two ATAPI devices |
| VGA Interface | CS5530A built-in TFTLCD / CRT SVGA controller with 4 MBytes of video memory shared with system memory up to 18-bit TTLTFT display, 1280 x 1024 @ 64K, 1024 x 768 @ 16M colors Optional DSTN LCD interface with NS CS9211 Optional LVDS TFT LCD interface with NS DS90C363A transmitter |
| LAN Interface | PCI RTL8139C 10/100 Mbps LAN interface, auto-switching, IEEE802.3U compliant |
| Audio Interface | AC97 3D audio interface with line-in, line-out, Mic-in and CD-in |
| GPIO Interface | 8-bit GPIO port with 4-bit TTL digital input and 4-bit TTL digital output |
| Multi-I/O Port | 3 x RS-232 and 1 x jumper selectable RS-232/422/485 serial port 2 x USB ports with USB verison 1.1 compliant 1 x SPP/EPP/ECP parallel port, IrDA, floppy, PS/2 keyboard / mouse port |
| Solid State Disk | One CompactFlash (CF) type-II socket supports CFC and IBM MicroDrive PIO mode 4 with 16.6 MBps of data transfer rate, bootable and driver free flash disk Flash memory capacity up to 1 GBytes on secondary slave IDE port Opitonal M-systems DiskOnChip socket for OEM (without CompactFlash socket) |
| Environment | Power Requirement:Single +5V with onboard AT P8/P9 power connector Board Dimension (L x W): 203 x 146 mm, standard EBX form factor Operation Temperature: 0 ~ 60ϕJ (32 ~ 140ϕK) |
| Ordering Code | LE-540VL 5.25" Embedded NS GX1 Miniboard with Onboard NS GX1-300 MHz CPU, TTL LCD / CRT SVGA, Audio, LAN, 4 COM, 8-bit GPIO and CompactFlash Socket LE-540VDL Same asabove but with DSTN LCD Interface LE-540VXL Same asabove but with LVDS LCD Interface |

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

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