

# Embedded Single Board Computer

*Low Profile, Low Power, Embedded Solution*

## HE-833 (NE2000 LAN)

**Half-size ISA-bus Embedded 386SX-40 CPU Card  
with Onboard 386SX-40 CPU, 4 MB EDO DRAM  
Flat Panel / CRT SVGA, NE2000 Ethernet  
DiskOnChip and PC/104 Interfaces**



<b>Form Factor</b>	Half-size 16-bit ISA CPU Card / Slot PC
<b>CPU</b>	Onboard embedded ALi 6117D 386SX-40 MHz CPU
<b>Memory</b>	Onboard 4 MB EDO DRAM and one 72-pin SIMM slot up to 16 MB EDO DRAM Total memory capacity up to 20 MB
<b>Chipset</b>	ALi 6117D chipset (DM&P OEM version)
<b>BIOS</b>	AMI system BIOS
<b>DMA Channel</b>	7 channels
<b>Interrupt Level</b>	15 levels
<b>Watchdog Timer</b>	Programmable generates NMI or system reset watchdog timer
<b>Real Time Clock</b>	Benchmark bq3287ATM (or Dallas DS12B887 compatible RTC)
<b>Expansibility</b>	Onboard 8-/16-bit ISA based PC/104 interface
<b>IDE Interface</b>	One bus master IDE channels up to 2 ATAPI devices support IDE mode 4
<b>VGA Interface</b>	TOPRO TP6508IQ 16-bit ISA-based flat panel / CRT SVGA controller with 1 MB frame buffer, supports CRT/DSTN/TFT/EL/Mono flat panel display Onboard 44-pin connector for TTL flat panel display (up to 24-bit) External DB15 female connector for CRT display
<b>Ethernet Interface</b>	RTL8019AS NE2000 compliant IEEE 802.3 10Base-T Ethernet controller External RJ45 connector for LAN
<b>Multi-I/O Port</b>	ALi 5113 super I/O controller 1 x RS-232 serial port COM1, external DB9 male on bracket 1 x jumper selectable RS-232/485 serial port COM2 1 x SPP/EPP/ECP parallel port 1 x 16-bit GPIO Port 1 x FDD port 1 x external PS/2 keyboard and mouse port 1 x internal AT keyboard port
<b>Solid State Disk</b>	Onboard 32-pin DIP JEDEC DiskOnChip2000 socket Flash memory capacity up to 576 MB with ECC/EDC data protection
<b>Environment</b>	Power Requirement: Single +5V, 900mA typically with onboard CPU& DRAM Board Dimension (L x W): 185 x 122 mm Operation Temperature: -20 ~ 60°C (-4 ~ 140°F)
<b>Ordering Option</b>	<b>HE-833VE</b> with 386SX-40 CPU, 4MB EDO RAM, SVGA, Ethernet Interfaces

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