

Embedded Single Board Computer

Low Profile, Low Power, Embedded Solution

HE-850

**Half-size ISA-bus Embedded Pentium CPU Card
with Onboard Intel Embedded Pentium 266 MMX CPU
Flat Panel / CRT SVGA, 2 MB SGRAM Video Memory
Dual 10/100Base-Tx Fast Ethernet LAN
DiskOnChip and PC/104 Interface**



Form Factor	Half-size 16-bit ISA CPU Card / Slot PC
CPU	Onboard Intel embedded low power Pentium 266 MMX CPU (Tillamook)
Memory	One 144-pin SODIMM slot up to 256 MB SDRAM
Chipset	Intel 430TX with Intel 82439TX and PIIX4E
BIOS	Phoenix-Award 2Mb PnP flash BIOS
L2 Cache	Onboard 512 KBytes Pipelined Burst SRAM
Watchdog Timer	Programmable generates NMI or system reset watchdog timer
Real Time Clock	Intel chipset built-in RTC with onboard lithium battery
Power Management	ACPI 1.0 compliant, supports power saving mode, doze/standby/suspend mode, wake-on-LAN, modem and peripheral devices with ATX PSU
Expansibility	Onboard PC/104 interface for 8-/16-bit ISA-based PC/104 add-in modules
IDE Interface	One UltraDMA/33 IDE channels up to 2 ATAPI devices with 44-pin connector
VGA Interface	SMI LynxEM+ SM712 flat panel / CRT SVGA controller with 2 MB on-die SGRAM video memory Optional SMI Lynx3DM SM7213D/2D SVGA controller with 4 MB SGRAM CRT/DSTN/TFT/EL/Mono flat panel display supported
LAN Interface	Dual 10/100 Mbps Fast Ethernet interface with RTL8139C
Multi-I/O Port	Winbond W83977EF-AW super I/O controller 2 x serial ports with RS-232 COM1 and RS-232/422/485 COM2 2 x USB ports, USB version 1.1 compliant 1 x SPP/EPP/ECP parallel port 1 x FDD port 1 x IrDA port 1 x external PS/2 keyboard and mouse port 1 x internal AT keyboard port
Solid State Disk	Onboard 32-pin DIP JEDEC DiskOnChip2000 socket Flash memory capacity up to 576 MB with ECC/EDC data protection
Environment	Power Requirement: Single +5V, +12V Board Dimension (L x W): 185 x 122 mm Operation Temperature: 0 ~ 60°C (32 ~ 140°F)
Ordering Option	HE-850VL2 with Intel Embedded Low Power Pentium 266 MMX CPU, Flat Panel / CRT SVGA, Dual LAN and DOC Interfaces

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