

Embedded Single Board Computer

Low Profile, Low Power, Embedded Solution

HE-835 (4 COM Ports)

**Half-size ISA-bus Embedded 386SX-40 CPU Card
with Onboard 386SX-40 CPU, 4 MB EDO DRAM
Flat Panel / CRT SVGA, 16-bit GPIO, 4 COM Ports
DiskOnChip and PC/104 Interfaces**



Form Factor	Half-size 16-bit ISA CPU Card / Slot PC
CPU	Onboard embedded ALi 6117D 386SX-40 MHz CPU
Memory	Onboard 4 MB EDO DRAM and one 72-pin SIMM slot up to 16 MB EDO DRAM Total memory capacity up to 20 MB
Chipset	ALi 6117D chipset (DM&P OEM version)
BIOS	AMI system BIOS
DMA Channel	7 channels
Interrupt Level	15 levels
Watchdog Timer	Programmable generates NMI or system reset watchdog timer
Real Time Clock	Benchmark bq3287ATM (or Dallas DS12B887 compatible RTC)
Expansibility	Onboard PC/104 interface for 8-/16-bit ISA-based PC/104 add-on modules 16-bit ISA bus interface for backplane
IDE Interface	One bus master IDE channels up to 2 ATAPI devices support IDE mode 4
VGA Interface	TOPRO TP6508IQ 16-bit ISA-based flat panel / CRT SVGA controller with 1 MB onboard video memory CRT/DSTN/TFT/EL/Mono flat panel display supported Onboard 44-pin connector for TTL flat panel display (up to 24-bit) External DB15 female connector for CRT display
Multi-I/O Port	Dual ALi 5113 super I/O controller 3 x RS-232 serial port COM1/COM3/COM4 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
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, 830mA typically with onboard CPU& DRAM Board Dimension (L x W): 185 x 122 mm Operation Temperature: -20 ~ 60°C (-4 ~ 140°F)
Ordering Option	HE-835VS with 386SX-40 CPU, 4MB EDO RAM, SVGA, 4 COM Interfaces

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