


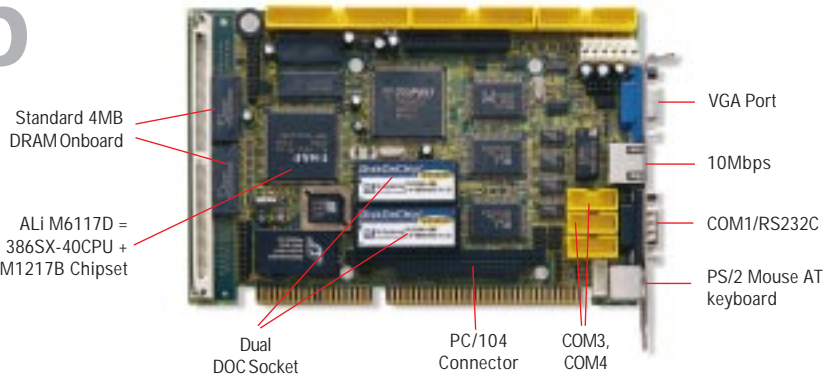


# EmCORE-i316

	ALi M6117D = Intel compatible 386SX-40 core + M1217B chipset
	LCD / CRT Top pro H6508
	16-bit Digital I/O



## 386SX-40 CPU Card with LCD/CRT Interface, Digital I/O and 4 Serial Ports

### General Specifications

**CPU + Chipset**  
ALi M6117D is an implementation of an INTEL compatible 386SX-40 CPU a watchdog timer and ALi's M1217B chipset

**BIOS**  
Y2k Compliant Award system BIOS

**DRAM Memory**  
4 MB up to 20 MB of EDO RAM, Single side  
4 MB EDO RAM onboard, 1 socket for a 72-pin single sided SIMM

**Bus Interface**  
ISA and PC/104 (speed 8.3 MHz)

**DMA Channels**  
7 channels

**Interrupt Levels**  
15

**Enhanced IDE**  
supports one port and up to two ATAPI devices of PIO mode 4. BIOS enabled/disabled

**Watchdog Timer**  
generates a system RESET or NMI when your application loses control over the system. Optionally the watchdog can trigger a user specified IRQ. The watchdog is configurable from 30.5 μs to 512 seconds (in 30.5 μs segments)

**Real-time Clock**  
Dallas DS-12887 or compatible with lithium battery backup for 10 years of data retention. CMOS data backup of BIOS setup and BIOS default.

### High Speed Multi I/O

**Chipset**  
ALi 5113 x 2

**Serial ports**  
3 high speed RS-232C ports (COM1, COM3, COM4), 1 high speed RS-232C/485/422 port (COM2) jumper selectable. All with 16C550 UART and 16 byte FIFO. BIOS enabled/disabled

**Floppy Disk Drive Interface**  
supports 2 floppy disk drives, 5¼" (360 KB or 1.2 MB) and 3½" (720 KB, 1.44 MB). BIOS enabled/disabled

**Bi-directional Parallel Port**  
supports SPP, EPP and ECP mode. BIOS enabled/disabled

**Keyboard and Mouse Connectors**  
external PS/2 Keyboard/Mouse port (2-in-1 mini DIN), Onboard AT keyboard port (5-pin box header)

**Digital I/O**  
16-bit GPIO, 8 independent GPI and 8 independent GPO programable by software.

### Flash DiskOnChip®2000

**Package**  
Dual Chips FlashDisk in 32-pin DIP JEDEC

**Capacity**  
288 MByte capacity

**Data Reliability**  
ECC/EDC error correction  
Memory window / 8 KByte

### Network Interface

**Chipset**  
RTL8019, 10 Mbps, autoswitching

### Display Function

**Chipset**  
Top pro H6508, 16-bit ISA

**Memory**  
1 MB onboard

**System Bus**  
16-bit ISA bus

**Panel Data Bus**  
24-bit

**Display**  
CRT and Flat Panel Mono/TFT/DSTN/EL

**Compatibility**  
IBM VGA hardware

### Environmental and Power

**Power Requirements**  
single voltage +5 V @ 800 mA with 4 MB DRAM and 1 MB Flash disk installed

**Board Dimensions**  
185 x 122 mm.

**Board Weight**  
0.24 Kg

**Operating Temperature**  
0 ~ +60°C (32 ~ 140°F)

### Ordering

**EmCORE-i316D** : Half-size 386SX-40 CPU Card with DiskOnChip socket, 4 Serial Ports and 16-bit Digital I/O Port including 4 MB EDO RAM onboard

**EmCORE-i316DVL** : Half-size 386SX-40 CPU Card with Flat Panel Display Controller, Ethernet and DiskOnChip socket, 4 Serial Ports and 16-bit Digital I/O Port including 4 MB EDO RAM onboard

