EmCORE-i316

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

Standard 4MB DRAM Onboard

ALi M6117D = 386SX-40 CPU + M1217B Chipset

Dual DOC Socket

PC/104 Connector

COM3, COM4

VGA Port

10Mbps

COM1/RS232C

PS/2 Mouse AT keyboard
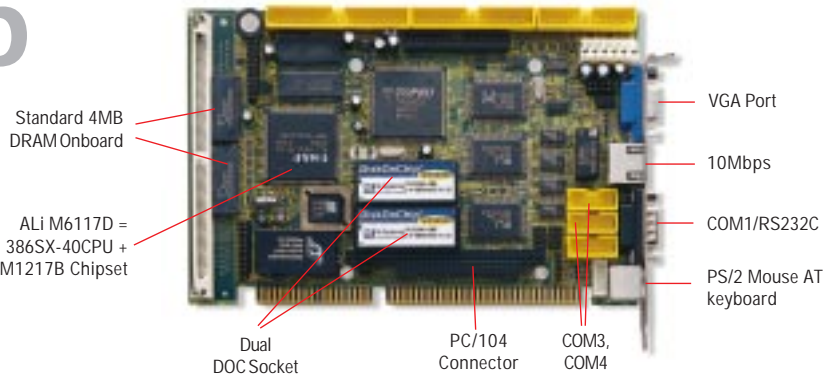
386SX-40 CPU Card — with LCD/CRT Interface, Digital I/O and 4 Serial Ports

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 programamble 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