# EmCORE-i316



ALi M6117D = Intel compatible 386SX-40 core + M1217B chipset



LCD / CRT Top pro H6508

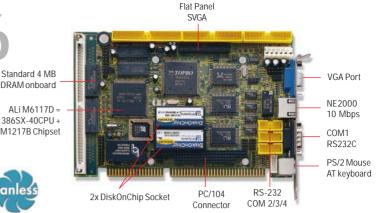


LAN 10 Mbps Realtek 8109A



16-bit Digital I/O





# Embedded 386SX-40

# Flat Panel / CRT SVGA, Ethernet, Digital I/O and 4 Serial

### **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

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 16 MB SIMM

#### **Bus Interface**

ISA and PC/104 (speed 8.3 MHz)

#### **DMA Channels**

7 channels

#### Interrupt Levels

#### Enhanced IDE

supports 1 port and up to 2 ATAPI devices, PIO mode 4 and Bus-Master, Ultra DMA transfer rates 33 MB/sec

#### 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  $\mu s$  to 512 seconds (in 30.5  $\mu s$ seaments)

#### 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. Both with 16C550 compatible UART and 16 byte FIFO.

#### Floppy Disk Drive Interface

supports 2 floppy disk drives. 51/4" (360 KB or 1.2 MB) and 31/2" (720 KB, 1.44 MB). BIOS enabled/disabled

#### **Bidirectional 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 programmable 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

Realtek 8019AS single chip

#### Type

10BASE-T. NE2000 compatible

#### Connectors

RJ-45 on bracket

# **Display Function**

#### Chipset

TP 6508IQ or compatible

#### Memory

1 MB onboard

#### System Bus 16-bit ISA bus

# Panel Data Bus

24-bit

#### Display type

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-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

EmCORE-i316DV: Same as above without Ethernet

EmCORE-i316D: Same as above without Flat Panel Display Controller and Ethernet (OEM only)



