

EmCORE-i312



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



LCD / CRT
TP 6508IQ (or C&T 65545)



LAN 10
Realtek 8019



16-bit
Digital I/O



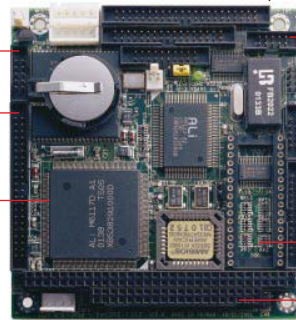
PS/2 KB/Mouse

Ultra DMA EIDE 44-pin
connector with power

CRT SVGA

Flat Panel
LCD Connector

ALI® M6117D =
386SX-40 CPU +
M1217B Chipset +
Watchdog



COM2
RS-232/485

10Base-T

COM1
RS-232

DiskOnChip®
up to 288 MB

PC/104 Connector

PC/104 386SX-40 Core

LCD/CRT SVGA, 10 Mbps Ethernet, SSD and Digital I/O

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

AMI system BIOS

DRAM Memory

4 MB EDO RAM standard onboard

Bus Interface

PC/104

Bus Speed

PC/104 (ISA) - 8.3 MHz,

DMA Controllers/Channels

8237 x 2

Interrupt Controllers/Levels

8259 x 2 / 15

Enhanced IDE

supports one port and up to two hard drives or Enhanced IDE devices of PIO mode 4 one 44-pin IDE connector for 2.5" (laptop-size) HDD/Flash IDE drive including power pins

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 μ s to 512 seconds (in 30.5 μ s segments)

Real-time Clock

included in M6117D with onboard lithium battery for 10 years of data retention. CMOS data backup of BIOS setup and BIOS default.

Digital I/O

16-bit GPIO, 8 independent GPI and 16 independent GPO programmable by software.

High Speed Multi I/O

Chipset

ALI 5113

Serial ports

One high speed RS-232C port COM1, one high speed RS-232C/485 port (jumper selectable, , 2x 10-pin headers). Both with 16C550 UART and 16 byte FIFO.

Floppy Disk Drive Interface

supports 2 floppy disk drives, 5¼" (360 KB or 1.2 MB) and 3½" (720 KB, 1.44 MB).

Bidirectional Parallel Port

supports SPP, EPP and ECP mode. BIOS enabled/disabled

Keyboard and Mouse Connectors

onboard 5-pin header for PS/2-keyboard
onboard 5-pin header for PS/2-mouse

Flash Disk DiskOnChip® 2000

Package

Single Chip FlashDisk in 32-pin DIP JEDEC

Capacity

2-288 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

8-pin mini header

Display Function

Chipset

TP 6508IQ (C&T 65545 optional)

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 EDO installed

Board Dimensions

90 (L) x 96 (W) mm.

Board Weight

0.25 g

Extended Operating Temperature

-20 ~ +70°C

Ordering

EmCORE-i312DVL :

PC/104 386SX-40 Module with
4 MB EDO, Flat Panel/CRT SVGA,
Fast Ethernet and DiskOnChip socket

EmCORE-i312DV :

as above without Fast Ethernet

EmCORE-i312DL :

as above without Flat Panel/CRT SVGA (OEM)

EmCORE-i312D :

as above without Flat Panel/CRT SVGA
and Fast Ethernet (OEM)