

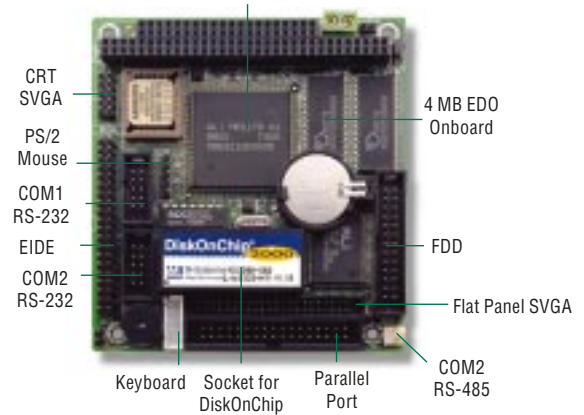
PIA-3386

 Flat Panel / CRT
HM 86508

 16-bit
Digital I/O



ALi® M6117D Embedded Chipset:
386SX CPU + watchdog timer + M1217B



386SX-40 Module

with LCD/CRT, 16-bit DIO and DiskOnChip socket

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 AMI system BIOS

DRAM Memory

4 MB EDO DRAM onboard

Bus Interface

PC/104

Data Bus

16-bit

Bus Speeds

PC/104 - 8 MHz (above values are defaults, bus speeds are programmable up to 16 MHz)

DMA Controllers

8237 x 2

Interrupt Controllers

8259 x 2

Enhanced IDE

supports one port and up to two hard drives or Enhanced IDE devices of PIO mode 4.

Watchdog Timer

generates either a RESET, NMI or an IRQ when your application loses control over the system. Optionally the watchdog can trigger a user specified interrupt. 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 backup for 10 years of data retention. CMOS data backup of BIOS setup and default

Keyboard and Mouse Connectors

Internal 5-pin header for AT-keyboard
Internal 5-pin header for PS/2-mouse

High Speed Multi I/O

Chipset

ALi 5113 (jumper enable/disable)

Serial ports

one high speed RS-232 port, one high speed RS-232/485 port (jumper selectable). Both with 16C550 UART and 16 byte FIFO.

Floppy Disk Drive Interface

supports up to two floppy drives, 5 $\frac{1}{4}$ " (360 KB or 1.2 MB) and 3 $\frac{1}{2}$ " (720 KB, 1.44 MB)

Bi-directional Parallel Port

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

Flat Panel Display Controller

Chipset

Topro TP6508IQ

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

Supported Flat Panels

NEC NL-6448AC26-04 TFT 10.4" 640X480
NEC NL-6448AC30-10 TFT 9.4" 640X480
NEC NL-6448AC30-03 TFT 9.4" 640X480
NEC NL-6448AC33-10 TFT 10.4" 640X480
NEC NL-6448AC33-13 TFT 10.4" 640X480
NEC NL-6448AC33-18 TFT 10.4" 640X480
NEC NL-8060BC31-09 TFT 12" 800X600
NEC NL-8060AC31-02 TFT 10.4" 800X600
NEC NL-8060AC31-01 TFT 10.4" 800X600
SHARP LQ10D42 TFT 10.4" 640X480
SHARP LQ10D421 TFT 10.4" 640X480
SHARP LM64C35P MONO 10.4" 640X480
Planar EL640.480 EL color 10.4" 640X480

Check for other displays.

Flash Disk DiskOnChip®

Package

Single Chip FlashDisk in 32-pin DIP JEDEC

Capacity

1-244 MByte capacity

Data Reliability

ECC/EDC error correction

Memory Window

8 KByte

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

105 g

Extended Operating Temperature

-20 ~ +60°C (-4 ~ 140°F)

Ordering

PIA-3386: PC/104 386SX-40 Core Module with 4 MB EDO, Flat Panel/CRT Display Controller and DiskOnChip socket

