



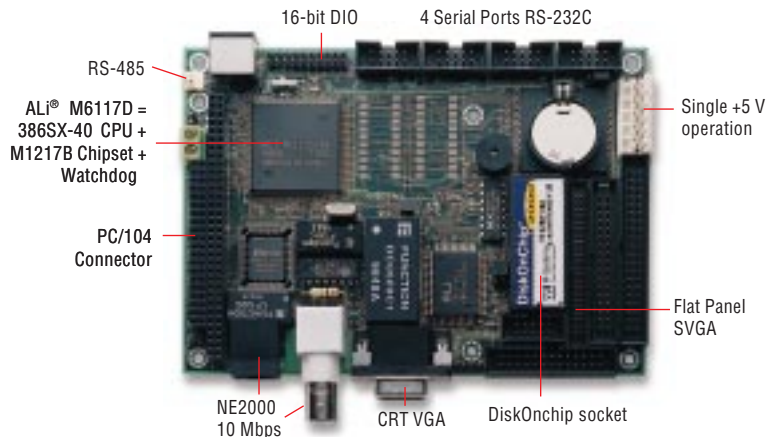


# PIM-381

	ALi M6117D = Intel compatible 386SX-40 core + M1217B chipset
	LCD / CRT HMC HM86508
	Network 10 Mbps
	16-bit Digital I/O



## 3 1/2" 386SX-40 Miniboard with LCD/CRT, Ethernet, 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 AML system BIOS

#### DRAM Memory

4~8 MB EDO RAM (4 MB standard onboard, 2 sockets for optional 2 MB SOJ)

#### Bus Interface

ISA and PC/104

#### Bus Speed

PC/104 and ISA - 8.3 MHz,

#### DMA Controllers/Channels

8237 x 2, 7 channels

#### 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. 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  $\mu$ s to 512 seconds (in 30.5  $\mu$ 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 programable by software.

### High Speed Multi I/O

#### Chipset

ALi 5113

#### Serial ports

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

#### Floppy Disk Drive Interface

supports 2 floppy disk drives, 5 1/4" (360 KB or 1.2 MB) and 3 1/2" (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

mini DIN connector for consecutive use of AT-keyboard and PS2 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

onboard RJ-45 and BNC connectors

#### Monitoring LEDs

10BASE-T indicator, activity indicator

### Display Function

#### Chipset

TP 6508IQ or compatible

#### 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 @ 900 mA with 4 MB EDO RAM and 2 MB DiskOnChip installed

#### Board Dimensions

145 (L) x 102 (W) mm.  
(same formfactor as a 3 1/2" FDD drive)

#### Board Weight

0.18 Kg

#### Operating Temperature

-20 ~ +60°C (-4 ~ 140°F)

### Ordering

**PIM-381/8** : 3 1/2" Embedded 386SX Miniboard with Flat Panel / CRT Display Controller, Ethernet interface, 16-bit Digital I/O, 4 Serial Ports, socket for DiskOnChip®2000 and 8 MB EDO RAM installed

**PIM-381/4** : same as above with 4 MB EDO RAM installed

