

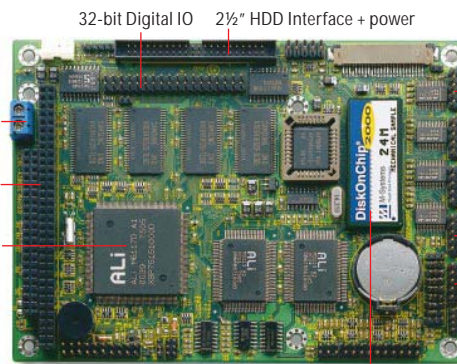
# PIM-380



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



16-bit  
Digital I/O



Single +5V  
Power

PC/104  
Connector

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

32-bit Digital I/O    2½" HDD Interface + power

RS-232  
COM1/2/3/4  
with +5 V  
and +12 V  
pins for POS  
applications

RS-422  
RS-485  
COM2

DiskOnChip2000 socket

## 386SX-40 Miniboard

## with 32-bit Digital I/O, 4 Serial Ports and PC/104

### 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

4~8 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

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

#### 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

32-bit GPIO (16 programmable Digital I/O, 8 fixed Digital In, 8 fixed Digital Out)

### High Speed Multi I/O

#### Chipset

ALi 5113

#### Serial ports

3 high speed RS-232C ports (COM1/3/4), 1 high speed RS-232C/422/485 port (COM2) jumper selectable all with 16C550 UART 16 byte FIFO and +5V / +12V power pins for POS

#### 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

onboard headers for PS2 Keyboard and 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

### Environmental and Power

#### Power Requirements

single voltage +5 V @ 800 mA with 4 MB EDO RAM and 4 MB DiskOnChip installed

#### Board Dimensions

145 (L) x 102 (W) mm.  
(same formfactor as a 3½" FDD drive)

#### Board Weight

0.18 Kg

#### Operating Temperature

0 ~ +60°C (32 ~ 140°F)

### Ordering

#### PIM-380 :

3½" Embedded 386SX Miniboard with 32-bit Digital I/O, 4 Serial Ports, DiskOnChip®2000 socket and 8 MB EDO RAM installed