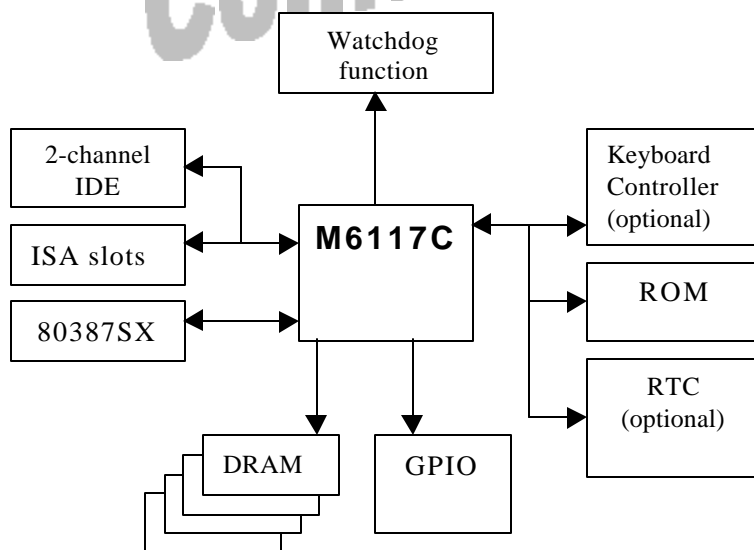# M6117C

386SX Embedded Microprocessor

Product Brief

The ALi M6117C is an embedded 386SX microprocessor. This high performance microprocessor is a combination of high performance 386SX CPU and ALi's highly compatible core logic system chip at 40 MHz. It has built-in real time clock, keyboard controller and IDE interface. Furthermore, the M6117C provides flexible control interface like GPIO pins and watchdog function. The M6117C is MS-DOS, MS Windows, OS/2 and 286/386 Unix compatible. It supports power management's Green function so it consumes less power. It operates at 5V and 40 MHz frequency. It supports FPM and EDO DRAMs up to 64MB. ALi's M6117C gives a better performance than the typical 386SX at the same clock rate.

M6117C System Block Diagram

- Highly integrated M1386 (386SX-40) & ALi M1217-40 (386SX Core Logic)

- Built-in RTC, KBC (AT & PS/2) and IDE interface

- Fully compatible with current MS-DOS, MS Windows, OS/2, 286/386 Unix operating systems

- Supports PMU Green function, low power consumption

- Supports General Purpose I/O pins (8 GPI pins, 16 GPO pins)

- Supports Watchdog function

- Supports up to 40 MHz operating frequency with 5.0V I/O

- Supports FPM and EDO DRAMs up to 64 MB

- Supports DRAM self refresh

- Supports flexible programmable shadow RAM function

- Single Chip 208-pin PQFP package, 0.6 µ triple metal process

Applications

- Word Processor

- Point-of-Sale Terminals

- Personal Digital Assistants

- Palmtops

- Notebook computers

- Desktop computers

- Digital Diary

M6117C Internal Block Diagram