EmCORE-i315



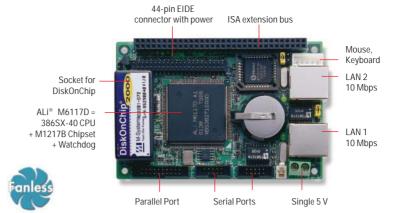
ALi M6117D = Intel compatible 386SX-40 core + M1217B chipset



Dual LAN 10 Mbps



16-bit Digital I/O



386SX-40 Tinyboard

Ultra Low Power Device with Dual LAN 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

Y2k Compliant AMI system BIOS

DRAM Memory

4 MB EDO RAM (4 MB 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

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 μs to 512 seconds (in 30.5 μs 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 programamble by software.

High Speed Multi I/O

Chipset

ALi 5113

Serial ports

One high speed RS-232 port, one high speed RS-232/485 port. Both with 16C550 UART and 16 byte FIFO, two onboard 10-pin headers

Bi-directional 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

Dual Network Interface

Chipset

2x Realtek 8019AS single chip

Type

10BASE-T, NE2000 compatible

Connectors

two RJ-45 connectors

Monitoring LEDs

two 10BASE-T indicator, activity indicator

Environmental and Power

Power Requirements

single voltage +5 V @ 400 mA

Board Dimensions

100 (L) x 66 (W) mm.

Board Weight

80 g

Extended Operating Temperature

0 ~ +60°C (32 ~ 140°F)

Ordering

EmCORE-i315DL2:

386SX-40 2½" Tinyboard with Dual 10Mbps Ethernet and DiskOnChip socket (includes 4 MB of onboard EDO)

