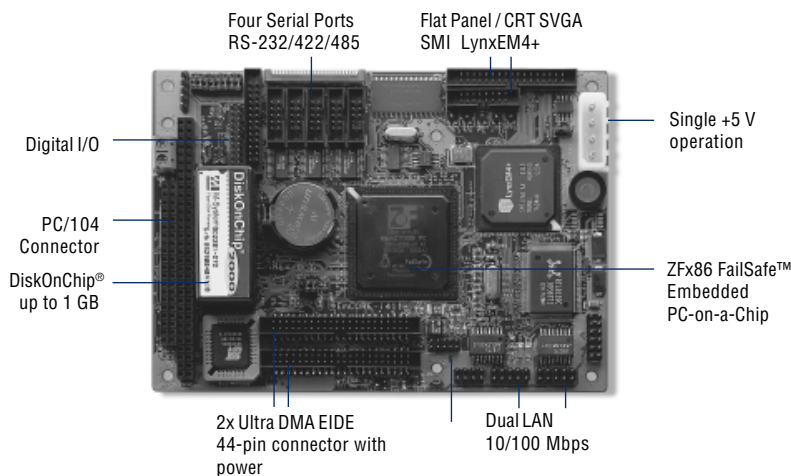


EmCORE-i411

3.5" ZFx86 Miniboard with Flat Panel / CRT, Dual LAN and 4 Serial



Features



- ★ ZFx86 FailSafe embedded System on-a-chip
- ★ 32 MB SDRAM soldered on board
- ★ Flat Panel / CRT support
- ★ Dual LAN 10/100 Mbps, RTL 8139C
- ★ CompactFlash™ type I/II

Specifications

System

- **CPU + Chipset:** ZFx86 Failsafe 486 CPU core operating at 133, 100, 66 and 33 MHz with 32-bit 33 MHz PCI rev 2.1 compliant "Northbridge" and "Southbridge" FailSafe internal Boot ROM that allows execution of multiple instruction sets: DRAM clear, Flash erase, executable load and run, Provides permanent and fail-safe mechanism
- **System Memory:** 32 MB Synchronous DRAM on board
- **Enhanced IDE:** 2 ports and up to four ATAPI devices with Ultra DMA 33 Mhz
- **BIOS:** Phoenix Embedded PC BIOS with RS-232 console redirection for headless BIOS access
- **Watchdog Timer:** Embedded application Dual Watchdog Timer (WDT) with SW and HW control of the WDT event 16 bit counter primary watchdog connected to SW IRQ/NMI/SMI reset by Watch Dog Timer Input (WDI). Second 8 bit counter output connected to H/W reset line enabled by primary counter output
- **Expansion Interface:** PC/104 (ISA)

Multiple I/O

- **Serial:** Three high speed RS-232C ports (COM1, 3, 4) and one jumper selectable RS-232C/422/485 (COM2), all provide jumper selectable +5V/+12V DC power
- **Parallel:** SPP, EPP and ECP mode
- **Floppy:** 1 x 3½" floppy disk drive
- **USB:** 2 USB v.1.1 ports and Open HCL compliant
- **K/B & Mouse:** AT Keyboard and PS2 Mouse
- **GPIO:** 16-bit GPIO

LAN

- **Chipset:** Dual RTL8139C 10/100 Mbps, autoswitching
- **Connector:** 2 x 10-pin onboard headers

Flash Disk

- One DiskOnChip2000 socket
- CompactFlash Type I/II

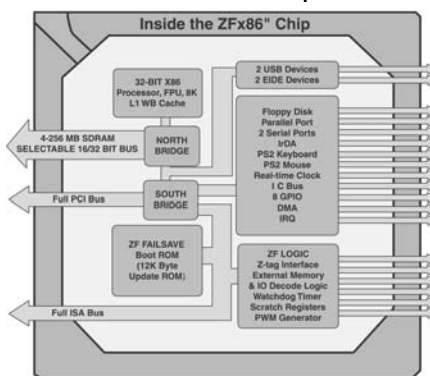
Display

- **Chipset:** SMI SM712G4AA LynxEM4+
- **Display Memory:** 4 MB memory on dye
- **Display Type:** CRT, Flat Panel (TFT, DSTN)
- **Resolution:** 1024 x 768 24bpp
- **LCD Interface:** TTL 24-bit

Mechanical and Environment

- **Power Requirement:** 5 V @ 1A (typical) with 32 MB DRAM and 8 MB Flash disk at 100 MHz
- **Operating Temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Relative Humidity :** Up to 90% @ 55°C
- **Dimension (L x W):** 145 x 102 mm (5.7" x 4")
- **Weight:** 0.24 Kg (0.53 lb)

Inside the ZFx86 chip



Ordering Information

EmCORE-i411DVL2

3.5" Embedded ZFx86 miniboard with Flat Panel Display Controller Dual Ethernet, DiskOnChip socket and CompactFlash socket (includes 32 MB onboard SDRAM)

SCDB-1271

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DC to DC Power Module