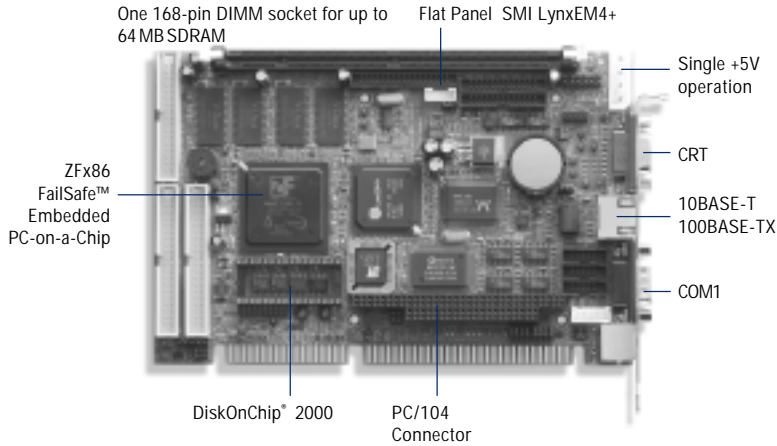


EmCORE-i414

Half-Size ISA ZFx86 FailSafe SBC with Flat Panel / CRT and LAN



Features



- ★ ZFx86 FailSafe embedded System on-a-chip
- ★ 64 MB SDRAM soldered on board up to 64 MB SDRAM on DIMM
- ★ Flat Panel / CRT supported SMI LynxEM+
- ★ LAN 10/100 Mbps, RTL-8139C
- ★ 4 Serial Ports
- ★ PC/104 connector

Specifications

System

- **CPU + Chipset:** ZFx86 Failsafe 486 CPU core operating at 133, 100, 66 and 33 MHz, with 32-bit 33MHz PCI rev 2.1 compliant "Northbridge" and "Southbridge"
- **System Memory:** 64 MB SDRAM soldered on board and up to 64 MB SDRAM in 168-DIMM socket
- **BIOS:** Phoenix Embedded PC BIOS with RS-232 console redirection for headless BIOS access
- **Enhanced IDE:** 2 ports, up to four ATAPI devices with UltraDMA 33 Mhz
- **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:** ISA (passive backplane) and PC/104 (ISA)

Multiple I/O

- **Serial:** 3 x RS-232C ports (COM1, 3, 4), 1 x RS-232C/422/485 port (COM2)
- **Parallel:** SPP, EPP and ECP mode
- **Floppy:** 1 x floppy disk drive
- **USB:** 2 x USB v1.1 ports
- **K/B & Mouse:** PS/2 keyboard/mouse on bracket, onboard 5-pin header for AT Keyboard
- **Digital I/O:** 16-bit, 8 Digital In and 8 Digital Out

LAN

- **Chipset:** Realtek 8139C
- **Type:** 10/100 Mbps, autoswitching
- **Connector:** RJ45 with LEDs on bracket

Flash Disk

- DiskOnChip2000 socket

Display

- **Chipset:** SMI LynxEM+ SM712, 64-bit GUI 2D engine
- **Display Memory:** 4 MB on-die
- **Display Type:** CRT and Flat Panel (MONO, DSTN, TFT)
- **Resolution:** Panel resolution 1024x768 @ 24bpp
- **LCD Interface:** TTL 24-bit

Mechanical and Environment

- **Power Requirement:** Based on 32 MB DRAM and 8 MB Flash disk
33 Mhz -> 5 V @ 0.8 A
66 Mhz -> 5 V @ 0.8 A
100 Mhz -> 5 V @ 0.9 A (default)
133 Mhz -> 5 V @ 1.1 A (over-clocked)
- **Operating Temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Relative Humidity:** Up ~ 90% @ 55°C
- **Dimension (L x W):** 185 x 122 mm (7.3" x 4.8")
- **Weight:** 0.24 Kg (0.53 lb)

Ordering Information

EmCORE-i414DVL

Half-size ISA-bus ZFx86 SBC with 64 MB SDRAM soldered onboard, Flat Panel/CRT, 4 Serial and LAN

ISA Passive Backplane Series

Half Size Wallmount Chassis for ISA bus series

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