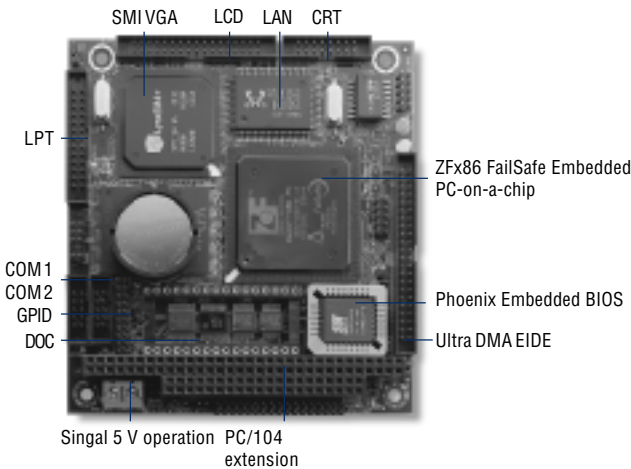


Em104-i413

ZF86 PC/104 Module with Flat Panel / CRT with Digital I/O and LAN



Features



- ★ ZF86 FailSafe embedded System on-a-chip
- ★ 32 MB SDRAM soldered on board
- ★ Flat Panel / CRT support optional Lynx EM4 or C&T 69000

Specifications

System

- **Embedded CPU + Chipset:** ZF x86 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:** 32 MB SDRAM onboard
- **BIOS:** Phoenix embedded PC BIOS
- **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 Watchdog Timer Input (WDI)
- **Expansion:** PC/104 (ISA)

Multiple I/O

- **Serial:** 1 x RS-232C ports (COM1), one RS-232C/422/485 (COM2)
- **Parallel:** SPP, EPP and ECP mode
- **Enhanced IDE:** 1 port and up to two ATAPI devices with Ultra DMA 33 Mhz
- **Floppy:** 1 port and up to 2 floppy disk drives
- **USB:** 2 onboard USB v1.1 ports and OpenHCL compliant
- **K/B & Mouse:** Onboard 10-pin mini header for PS2 Keyboard and Mouse
- **GPIO:** 16-bit GPIO

LAN

- **Chipset:** Realtek 8139C, 10/100 Mbps, autoswitching
- **Connector:** 10-pin onboard header

Flash Disk

- **DiskOnChip2000 socket:** Up to 1 GByte

Display Options

Flat Panel / CRT (EmCORE-i413)

- **Chipset:** SMI SM712G4AA LynxEM4
- **Display Memory:** 4 MB memory on dye
- **Display Type:** CRT, TFT, DSTN, SSTN, EL, Plasma Quarter VGA, VGA, SVGA, XGA and SXGA
- **Resolution:** 1024 x 768 24bpp
- **LCD Interface:** TTL 24-bit

Flat Panel / CRT (Em104-i413A)

- **Chipset:** C&T 69000 HiQVideo™ Accelerator
- **Display Memory:** 2 MB SDRAM on dye
- **Display Type:** CRT and Flat Panel (TFT, DSTN, SSTN, EL, Plasma)
- **Resolution:** 800x600 @ 18bpp, 1024x768 @ 16bpp, 1280x1024 @ 8bpp
- **LCD Interface:** TTL 36-bit

Mechanical and Environment

- **Power Requirement:** 5 V @ 0.9 A (typical) with 32 MB DRAM and 8 MB Flash disk at 100 MHz
- **Operating Temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Relative Humidity:** 0%~90%
- **Dimension (L x W):** 96 x 90 mm (3.8" x 3.5")
- **Weight:** 0.10Kg (0.22 lb)



EmCORE-i413A

Ordering Information

Em104-i413DVL

PC/104 ZF86 module with 32MB SDRAM onboard, Lynx Flat Panel/CRT, LAN, DiskOnChip socket, 16-bit DIO

Em104-i413/A

PC/104 ZF86 module with 32MB SDRAM onboard, CT69000 Flat Panel/CRT, LAN, DiskOnChip socket, 16-bit DIO