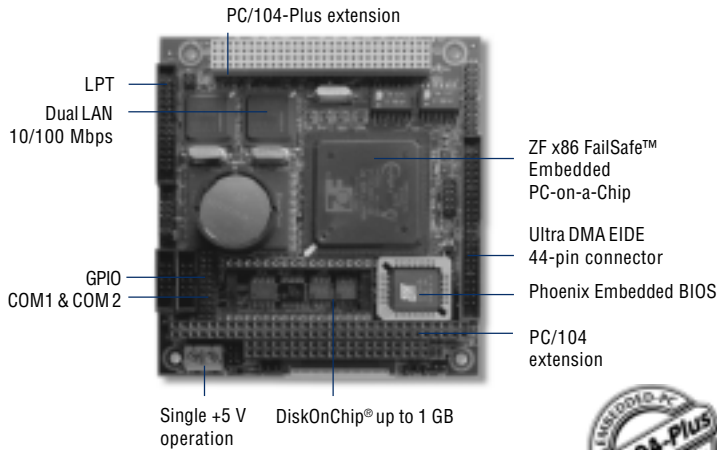


Em104P-i412

ZFx86 PC/104-Plus Module with Dual LAN and Digital I/O



Features



- ★ ZFx86 FailSafe embedded System on-a-chip
- ★ 32 MB SDRAM soldered on board
- ★ Dual LAN 10/100 Mbps, Intel 82559ER
- ★ PC/104-Plus Interface
- ★ 16-bit Digital I/O

Specifications

System

- **CPU + Chipset:** ZF x86 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"
- **System Memory:** 32 MB SDRAM onboard
- **BIOS:** Phoenix embedded PC BIOS
- **Expansion Interface:** ISA bus - 8.3 MHz (PC/104) and PCI 32 bit 33 MHz (PC/104-Plus)
- **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)

Multiple I/O

- **Serial:** 1 x RS-232C ports (COM1) and 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 (ATA-4)
- **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

Dual LAN

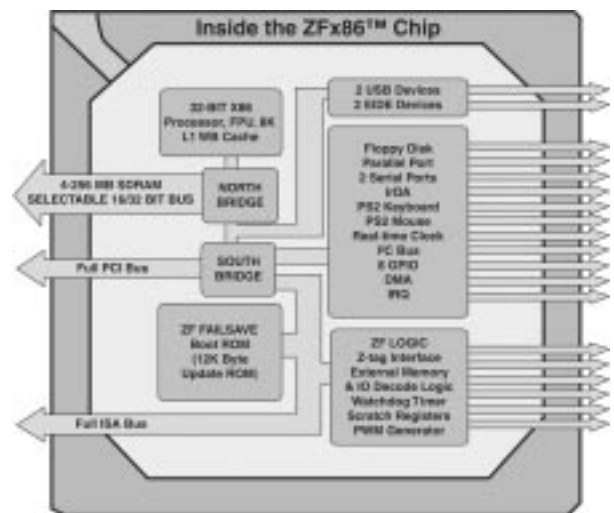
- **Chipset:** Intel 82559ER, 10/100 Mbps, autoswitching
- **Connector:** 2 x 10-pin onboard headers

Flash Disk

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

Mechanical and Environment

- **Power Requirement:** 5 V @ 0.75 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:** 0.10 Kg (0.22 lb)



Inside the ZFx86 Chip

Ordering Information

Em104P-i412DL2

PC/104-Plus ZF x86 module with onboard 32 MB SDRAM, Dual Fast Ethernet, DiskOnChip socket and 16-bit Digital I/O port