

Rapid Deployment of Embedded Systems Requires Easy Access to Parts for Prototyping

Quick Start your EEPC-based embedded system design with a starter kit that will save time and cost, and facilitate first pass success. The EEPC was designed to be available long-term and easy to source. Almost all the components on the EEPC Bill Of Materials are available from DigiKey, Mouser, RS Components (Allied), Nu Horizons (Silicon Motion), or Symmetry Electronics (SST NANDrive).

For those components that are not readily available through distribution, there is the EEPC Quick Start Parts Kit. The kit includes the ZFx86 FailSafe® PC-on-a-Chip, RealTek RTL8139DL Single-Chip 10/100M Fast Ethernet Controller, Cypress Semiconductor CY2292F General Purpose Field Programmable Clock Generator, and the Atmel AT29C040A Flash memory.

The Cypress CY2292F Clock Generator and the Atmel AT29C040A Flash are pre-programmed by ZF to save additional time.



ZFx86 FailSafe® PC-on-a-Chip Sub 1Watt 486 DX4 with FPU and 8K L1 cache

- Operates at: 25, 33, 50, 66 or 100MHz
- Runs Intel® x86 compatible operating systems and application software
- Integrated Chipset
- Super-I/O
- ISA, PCI & I²C buses
- IDE interface (2 drives, primary & secondary interface)
- Floppy disk controller
- 1 parallel, 2 serial ports
- 2 USB 1.1 ports for HID only
- Real Time Clock
- PS2 keyboard and mouse
- 256MB SDRAM controller
- 388BGA
- Includes Phoenix Technologies based ZF Embedded BIOS License with each chip
- DR-DOS 7.03 license included with each ZFx86



Atmel AT29C040A Flash*

4-megabit (512K x 8) AT29C040A

- Fast Read Access Time 70 ns
- 5-volt Only Reprogramming
- Internal Program Control and Timer
- Hardware and Software Data Protection
- Two 8K Bytes Boot Blocks with Lockout
- Fast Sector Program Cycle Time - 10 ms
- DATA Polling for End of Program Detection
- Low Power Dissipation 40 mA Active Current
100 µA CMOS Standby Current
- Typical Endurance > 10,000 Cycles
- Single 5V ±10% Supply
- CMOS and TTL Compatible Inputs and Outputs



Cypress Semiconductor CY2292F*

General Purpose Clock Generator

Three clocks: Sys (selectable 25, 33.3, 50 or 66.6MHz), USB (48MHz), PIT (14.318MHz)



RealTek RTL8139DL Single-Chip 10/100M Fast Ethernet Controller

- Integrated Fast Ethernet MAC and PHY
- 10/100 Mb/s
- PCI local bus single-chip Fast Ethernet controller

ORDERING INFORMATION:

Part # ZFx86-QSTART-EEPC

Starter Parts Kit includes ZFx86, RTL8139DL, CY2292F* and AT29C040A* (*pre-programmed)