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For Immediate Release

**ZF MICRO DEVICES FAILSAFE ZFx86 PC-ON-A-CHIP NOW  
AVAILABLE IN EXTENDED TEMPERATURE VERSION**

**Product Targeted for Harsh Environments: Transportation, Remote  
Monitoring & Instrumentation, and Industrial PCs**

**PALO ALTO, CA, July 23, 2001 ZF Micro Devices, Inc.** has announced today an extended temperature version of the popular FailSafe ZFx86 PC-on-a-Chip microcontroller. The chip will operate over a temperature range of -40C to +85C case temperature, at a maximum CPU clock speed of 100MHz, core voltage of 2.25 volts +/- 5%.

“Since embedded systems are typically used in products which are subjected to an array of environmental elements engineers need a reliable, ultra-low power x86 microcontroller that can withstand either seasonal or consistent harsh temperature ranges,” said David Feldman, founder and Chief Executive Officer. “The ZFx86 PC-on-a-Chip is being successfully designed into many products where temperatures become seasonally hot including those used during ocean floor drilling, remote monitoring and instrumentation, and in devices used on cars, trucks and cargo containers,” said Feldman.

The new device has a 240-piece minimum order quantity, and is available currently on a 2 to 3 week lead-time following receipt of order. For more detailed information or to locate your local representative or distributor for pricing refer to the ZF Micro Devices web site at [www.zfmicro.com](http://www.zfmicro.com). The part number is ZFx86BGA388E-100.

## **About ZFx86 FailSafe PC-on-a-Chip microcontroller**

ZF Micro Devices provides the ZFx86 PC-on-a-Chip, to enable customers to deliver innovative products faster. A low power consumption device measuring only 35mm by 35mm, the ZFx86 comes bundled with the run-time license for a fully implemented PhoenixBIOS™ from Phoenix Technology. The ZFx86 is a fully x86 PC compliant microcontroller, and has been tested to run with a wide variety of O/S's, including DOS, Linux, Windows 95/98/NT and Windows CE 3.0. Every ZFx86 Integrated Development System includes Red Hat Linux and LynuxWorks BlueCat™ Linux, LynuxWorks™ development tools for creating compact custom Linux embedded applications. Including the software with the chip means OEMs no longer have to pay costly license fees or go through the expensive and time-consuming requirement of porting third party software and searching for unique peripheral drivers.

The ZFx86, with the FailSafe™ System is the only X86 PC-on-a-Chip microcontroller that boots autonomously on application of power and can operate even if system DRAM and Flash are unavailable. The patented FailSafe™ System also allows upgrades over the Internet, while eliminating the possibility of irrecoverable crashes. Using its proprietary Z-Tag™ interface, the ZFx86 can re-program system Flash at a fast 1.5M-bits per second, rather than the usual 19.2Kbaud, reducing potential downtime dramatically.

With an expanding range of reference design material available from the ZF Micro Devices web site ([www.zfmicro.com](http://www.zfmicro.com)), the ZFx86 microcontroller delivers key enabling technologies for embedded applications. The ZFx86 is available from distributor stock on a worldwide basis.

## **About ZF Micro Devices**

ZF Micro Devices has pioneered FailSafe systems since its founding in 1995. ZF Micro Devices enables its customers to bring profitable, innovative, crash-immune systems to market faster than their competitors, by delivering ultra-low power PC systems at a chip size and price. The company recently changed its name from ZF Linux Devices. Corporate headquarters are located at 1052 Elwell Court, Palo Alto, CA 94303 USA: toll-free: 800-683-5943; tel: 650-965-3800; fax: 650-965-4050; e-mail: [info@zfmicro.com](mailto:info@zfmicro.com); web: [www.zfmicro.com](http://www.zfmicro.com). In Europe, ZF Micro Devices can be reached at +33-(0) 1-41-80-04-10. In South America, call +54-11-4543-0049.