

Welcome to EMAC Email, a newsletter from EMAC, provider of single board computers, peripherals, and custom engineering to meet your embedded systems needs.

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Trade Show News:

Embedded Systems Conference

For those of you who made it to our booth at the Embedded Systems Conference in Boston this past September, we enjoyed meeting you. Our next show will be in March, 2002 National Manufacturing Week - Industrial Automation Show at McCormick Place in Chicago. Come see us at Booth # 4445 this March 18 - 21 in beautiful downtown Chicago.

We will be displaying our new compact half EBX boards, the PCM 53E30 and the PCP-53E52. Both come with 10/100 Base-T Ethernet and the PCM 53E30 comes with optional dual 10/100 Base T Ethernet. Check out our next newsletter for free passes to this show.

Newsletter Promotion:

Primer Trainer LCD Experiment Pack

The Primer Trainer is an excellent tool for learning embedded systems programming. To enhance the versatility of the Primer, we are featuring the LCD Experiment Pack described in Application #7 in our Primer Applications Manual.

DISCOUNT - Primer LCD Experiment Pack (E600-16) - \$50.00

This completely assembled Experiment Pack displays character information sent from the Primer on a 20x2 LCD. In addition, the code for this Application can be incorporated into a larger custom project.

This offer is valid for 30 days after the release of this edition of the newsletter.

Product Highlight:

PCM-53E30

The PCM 53E30 is a compact half EBX board with single or dual (optional) 10/100 Base-T Ethernet. The board is based on the very low power 133 MHz ZFx86 PC compatible processor. The board features up to 256 Meg. of SDRAM, 256 Meg. of Compact Flash, 2

serial ports, 1 parallel port, 2 IDE devices, 2 Floppy devices, 2 USB channels, and PC/104 plus expansion. The PCM 53E30 will be available March 2002.

PCP-53E52

The PCP-53E52 is a compact half EBX board with 10/100 Base-T Ethernet. The board is based on the new AMD 133 MHz SC520 PC compatible processor. The board features up to 256 Meg. of SDRAM, 244 Meg. of Disk-On-Chip (DOC) Flash, 4 serial ports, 1 parallel port, 2 IDE devices, 2 Floppy devices, and PC/104 plus expansion. An optional I/O coprocessor Daughter board makes the PCP-53E52 truly unique. This small stackable low cost daughter board provides 12 bit A/D and D/A, Digital I/O, Keypad interface, Character LCD interface, and Counters/PWM. The PCP-53E52 will be available February 2002.

Technical Forum:

New EMAC Linux 2.4 Distribution

Carbondale, Illinois, September 1, 2001-EMAC, Inc., announces [EMAC Linux 2.4](#), a full featured distribution intended for the embedded systems market. The new EMAC Linux 2.4 utilizes the 2.4 kernel which features USB support, enhanced networking, GPL-compliant modular Disk-On-Chip driver, and new updates to utilities for easier configuration. In addition, this distribution has GLIBC 2.3 for binary compatibility with Redhat 7.1 and other recent distributions making application development easier.

EMAC has been offering our Linux distribution for the embedded systems market since 1998. The Linux 2.4 distribution is fully supported and for use with virtually all of EMAC's PC compatible Single Board Computers (SBCs). The standard Linux 2.4 distribution has a footprint of approximately 6.5 Meg. (leaving over one Meg. of application space on an 8 Meg. Flash Disk) and has all the features an embedded Linux user expects.

EMAC offers Linux extension modules that can be incorporated into our standard distribution that adds functionality and utilities quickly and easily. From Apache to X-Window, these modules are tested and pre-configured. Once a custom distribution has been created, that distribution can be given a unique part number and kept as a disk image. Subsequent purchases of that part number are guaranteed to contain software identical to the original.

Our standard Linux distribution is free with the purchase of an SBC and suitable media. Our extensions modules/custom distributions require only a one-time setup charge with the purchase of an SBC and can be installed on subsequent orders at no additional charge.

Jungo Driver Development Tools v5.03

Sept 12th, 2001 (Sunnyvale, California)- Jungo Software Technologies Inc. (www.jungo.com) announced today the release of version 5.03 of its driver development tools (WinDriver / KernelDriver / Hardware Debugger) and CompactPCI Hot Swap software (GO-HotSwap). The new release includes support for Linux 2.4x kernels, as well as WinDriver, KernelDriver and Hardware Debugger support for Windows XP (RC1) and WinDriver support for Windows CE 3.0. Based on Jungo's cross-platform technology, drivers developed using WinDriver or KernelDriver (current or previous versions) may be ported to the newly supported operating systems without additional code modification. "The release of version 5.03 affirms Jungo's commitment to continuously provide support for major operating systems, as they are released," said Roy Tannenbaum, Product Marketing Manager at Jungo.

Version 5.03 also introduces various enhancements including Linux and Solaris versions of the Debug Monitor (Jungo's graphical debugging utility), previously available under the Windows version only. Comprehensive release notes for all versions can be viewed at <http://www.jungo.com/wdver.html> and <http://www.jungo.com/ghsver.html>.

Windows XP-Embedded

Based on the same binaries as Windows XP Professional, Windows XP Embedded enables embedded developers to individually select only the rich features they need for their customized, reduced-footprint devices, using powerful development tools that streamline the end-to-end development process. In addition, Windows XP Embedded has a lower cost than its desktop counterpart. Look for Windows XP Embedded coming at the end of November.

Engineering Success Story:

Pneumatic Leak Detector

When Cincinnati Test Systems (CTS) required a versatile Single Board Computer (SBC) with Analog and Digital I/O, which was both easy to program and inexpensive, they chose EMAC's MICROPAC 180 with MTBASIC. And when they needed an SBC with 24 bits of A/D, again they chose EMAC, however, this time they chose EMAC's Semi-Custom design services. EMAC took the MICROPAC 180 core and MTBASIC that CTS was so comfortable with and added a 24 bit A/D, a few relays, and modified the firmware in the I/O coprocessor to pulse width modulate three valves. The result was a low cost product solution that can detect leaks in a Pneumatic system to 1/1000th of a PSI. CTS wrote and maintains all the software and EMAC manufactures the units. A win-win for both CTS and EMAC.

EMAC Extras:

EMAC Specials

This month's SPECIAL is the: SBC-555 ... Pentium Half-size ISA CPU card ... \$265.00
SBC-555 - http://www.emacinc.com/pc_compatible_sbcs_info/sbc555.htm

All the items on this page are either discontinued or must leave our inventory. However, these specials are NEW and have a full two-year warranty. As always these products have EMAC's service and reliability to back them.

These items could serve as a prototype for a new product without the cost of newer more expensive boards. At the same time they could serve as an inexpensive alternative to the one time application or to the basement tinkering. So don't be the last to pick up these great specials as they are of limited quantities.

EMAC Specials - http://www.emacinc.com/emac_specials.htm

EMAC, Inc. Homepage:
<http://www.emacinc.com>

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