

Welcome to EMAC Email, a newsletter from EMAC, an Anna Technology Company, 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

Thank you to those of you who stopped by our booth (Anna Technology Pavilion) at the Applied Computing Conference in Santa Clara this past May. We enjoyed meeting you and look forward to seeing you at the **Embedded Systems Conference in Chicago this month, July 10-11**. Please come by and see us at **Booth # 232**. Meet our Sister Company, J. Gordon Electronic Design, exhibiting just next door. We will be demonstrating our new PPC-E5, compact panel PC, and our new Internet Gateway Server.

Coming Up: Look for EMAC at the **Embedded Systems Conference in Boston, September 4 –7**, at the Anna Technology Pavilion. For a FREE show pass, please log on to <http://www.esconline.com/boston/freepass.htm>.

This free pass qualifies you for:

- Admittance to the 2-day product exhibits of more than 100 companies
- A chance to see the latest technologies
- 1st Day Keynote Address: Cliff Stoll, author of Cuckoo's Egg: "Tracking a Spy Through the Maze of Computer Espionage"
- 2nd Day Keynote Address: Michael Tiemann, CTO of Red Hat, "Open Source in Embedded: Dilemma or Delight?"
- Opening Night Reception: "Take Me Out to the Ballgame", Wednesday, September 5th, from 5:30 – 7:30pm. "Free beer, soft drinks, and hot dogs while you visit with the exhibitors"

Hope to see you there!

Product Highlight

Universal Trainer

The Universal Trainer (UT) is an 8085-based training tool specifically designed for instruction in programming, interfacing, and troubleshooting. Since the 8085 processor is similar to an 8088 yet easier to program, students and hobbyists can learn software design and debugging with minimal effort.

The Universal Trainer utilizes a 8255 PPI, an 8253 Timer/Counter, an 8259 Interrupt Controller, an 8279 Display Controller, and an 8251 Serial UART Controller. Most of these peripherals are found not only in PC products but also in machine tools, video games, and robotic equipment.

The Universal Trainer can be used to simulate many real-world scenarios. By setting various fault jumpers, a user can practice troubleshooting. These jumpers simulate system failures such as power loss or shorted connections. By setting up to four on-board A/D inputs, a user can simulate a data collection system. An industrial control system can be simulated using the on-board switches, pots, discrete LEDs and bar graph.

Using PC/Terminal software, the Universal Trainer can be attached to a desktop computer system. This expands the programming capabilities, allowing Machine Language and Assembler programs to be uploaded and downloaded via an RS232 serial connection. In addition, higher-level languages such BASIC, FORTH and C can be used. Debugging of the code can be accomplished using hardware/software single step editing and using break points that are inserted into the programming code.

For more details on the Universal Trainer, visit the UT web page at <http://www.emacinc.com/universa.htm>.

Newsletter Promotion

Free case with purchase of the Universal Trainer

The Universal Trainer is an excellent instructional tool for both students and computer enthusiasts. To keep the UT and its optional equipment in top condition, users require rugged storage that is easily transportable.

FREE – Padded Case (E800-90) with the purchase of a Universal Trainer (E800-00).

This briefcase is composed of a hardened outer shell with metal clasps surrounding a thick foam interior. Pockets in the foam interior protect the UT from damage and provide space for a multimeter, power supply, and other essential devices.

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

Trends in Technology

A Chip To Foil Counterfeiters

Just 0.4 millimeters thick, a chip, developed by Hitachi Ltd., could “foil counterfeiters”. A chip so small and thin, it can be embedded into documents (even money) to store security and identification information. A chip reader could immediately determine authenticity. To read all about it, click on <http://www.siliconstrategies.com/story/OEG20010702S0060>.

EMAC Extras

EMAC Specials

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 EMACs 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

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