

# ENCORE™

— Now you can buy time to profit

Standards-based embedded computing speeds time to market

Compact size enables footprint flexibility

Processor-independent architecture unlocks design creativity



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# Unrivaled Flexibility in Standards-Based Embedded Computing

## **Make vs. buy**

Embedded product design is harder than ever. Connectivity requirements, a wide choice of high-performance processor architectures and increasingly complex software increase design time and adds to integration issues. Designers face a myriad of tradeoffs which impact product cost, development time, product footprint, and functionality.

Historically, the solution has been to either design a custom CPU subsystem with microprocessor components, or purchase an off-the-shelf computer board. Pre-built CPU boards can often speed up development time, but frequently impose penalties on product footprint, and provide limited or mismatched functionality. Custom CPU designs increase design time including the need to port and bring up an operating system, but have usually been the only way to design in unique features to match product size and cost goals. Until EnCore™.

## **The best of both worlds**

Designed by Ampro, a pioneer in the development of single-board computers for embedded applications, EnCore CPU modules give you the time-to-market advantage you want, the computing power you need, and the flexibility to easily add hardware and software components that make your product unique. And because EnCore is a small, high-integration module, designed to plug into your form-factor independent logic board, it integrates easily into many products.

Each EnCore module provides a high performance CPU and a set of common peripheral components. You get the processor, networking connectivity, memory controller, standard I/O, and high-speed graphics. All EnCore I/O signals are provided to your application-specific logic board.

EnCore's open architecture is based on the industry-standard PCI bus. Customize EnCore products quickly and easily by interfacing your custom logic to the PCI bus on your baseboard. And since a variety of processors support PCI, the EnCore architecture imposes no processor dependencies on your system, allowing you to choose from—and even switch between—popular RISC and CISC CPUs.

Plus, the EnCore platform provides all the software benefits of an off-the-shelf CPU board. Choose from a wide variety of popular operating systems, with board support packages already developed for EnCore.



## **The best of all worlds**

Add features to your product by redesigning your logic board, without altering the CPU subsystem. Increase performance or reduce cost by substituting an alternate CPU module on the same logic board. EnCore makes it faster and easier than ever to bring your entire product line to market.

## **For a time-to-market advantage and more**

Embedded systems developers spend billions of dollars a year on new software and hardware design tools to improve time-to-market performance. Yet, the same company that will spend millions on these design tools to achieve this faster time to profit will often embark on a project path filled with uncertainty and risk because of the decision to construct a custom CPU subsystem. EnCore allows you to shorten this time and reduce risk by eliminating the need to design and debug a custom CPU, or to configure and debug an operating system for a custom CPU.

## **Get the EnCore advantage**

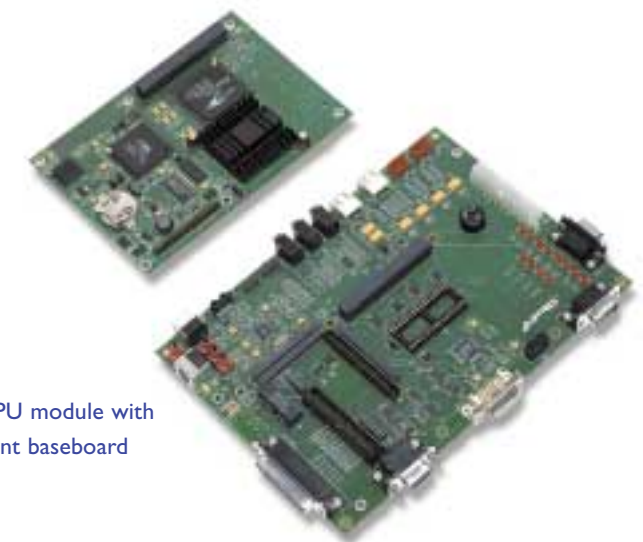
While EnCore gives you a time-to-profit advantage, it still preserves your design flexibility. Add virtually any PCI peripheral your product needs to your logic board. And EnCore-based products are easy to upgrade and enhance. Construct your application-specific logic board in virtually any form-factor to fit your product footprint.

EnCore reduces development time and cost. It lowers technical risk and schedule uncertainty. And provides a proven embedded CPU platform, with a choice of popular operating systems. All at a lower system cost than other board-based solutions.

Add the functionality you want to the embedded processing power you need. EnCore represents a new processor-independent industry standard, with the quality and features you expect from the inventor of PC/104 and EBX.

## **Get the information**

To find out how you get to market—and to profit—faster than ever, find out more about EnCore from Ampro. For more information on the EnCore family of products, visit Ampro online at [www.ampro.com](http://www.ampro.com). Or call us at 1-408-360-0200.



EnCore CPU module with  
development baseboard

