



## **The Widest Range of COTS, Semi-Custom and Custom Solutions from Ampro, the Pioneer in Modular Embedded Technology**

"We provide our customers with the best value in a PC-compatible single board computer for the widest range of application requirements." - Paul Rosenfeld, CTO

### **Fortune 500 Companies Rely on Ampro**

The early 1980s saw the introduction of what would quickly become the dominant consumer and office computing platform: the personal computer (PC). Soon, economies of scale at the component level began to have a profound impact on the design of embedded systems. In the Silicon Valley, Ampro Computers was founded with the mission to bring new design technologies to the embedded market. Ampro recognized that re-targeting the PC architecture for embedded systems would provide easy access to a wide variety of proven, off-the-shelf hardware, tools, and operating systems.

For over 20 years, Ampro has contributed to the success of many Fortune 500 system manufacturers by providing single board computers (SBCs) for extended lifecycles, including technical support and offering broad manufacturing capabilities. Our customer base includes companies in the military, aerospace, medical, and transportation industries that have industrial control or commercial applications where small size, durability, low power consumption, high quality, and reliability are critical. Plus, our customers count on our component selection and commitment to lifecycle management to protect them from the obsolescence of chips -which saves time and money by preventing redesign and re-certification.

### **We Developed Industry Standards for COTS Embedded Modules and SBCs**

Ampro invented industry standards for commercial off-the-shelf (COTS) embedded PC modules and SBCs, such as the PC/104, PC/104-Plus, and EBX form factor standards. Ampro's computer-on-module (COM) products support x86 and RISC architectures, and easily mount on OEM's custom carrier boards or baseboards. Ampro also designs custom boards for OEMs whose volume and requirements necessitate a custom solution. In each case, Ampro ensures that its products run operating systems like Windows® XP, Windows CE, VxWorks®, QNX®, and Linux® so that you can focus your resources on applications. Whether you prefer x86 or RISC processors, we can help you build a better product, faster.

Ampro offers several lines of SBCs to meet distinct system requirements, rather than trying to satisfy all requirements with a single offering. Ampro LittleBoard™ products are truly "rugged" by design, not just by screening. And Ampro's generous 3-year warranty even applies to optional

Extended Temperature (ETT) and Conformally Coated units. Ampro CoreModule™ products bring these rugged characteristics to the small, stacking PC/104 architecture. And Ampro ReadyBoard™ products are optimized for price rather than rugged features, for high-volume commercial applications. Best of all, these product families all use the same PC/104 expansion interface, so that Ampro's broad line of MiniModule™ peripheral modules round out the feature set of your system.

### **Application-Ready Boards Save Months of Development Time**

Ampro is the first vendor to supply and support complete Board Support Packages (start-up code and drivers) for Windows®, Windows CE, VxWorks®, QNX®, and Embedded Linux®. All our boards are application-ready, so embedded system designers can focus their attention on building applications rather than having to port the OS and build drivers from the ground up. The



boards come complete with device driver support for QNX v6.2.1, Windows CE .NET, VxWorks 5.5, and Linux OS. The hardware, documentation, and support software are distributed to system OEMs in Ampro's QuickStart Kits and Development Systems. The software includes proven device drivers for each operating system, plus a complete certified distribution in the case of Linux.

### **Commitment to Lifecycle Management from Quality Vendors Protects from Obsolescence**

Many processors and chipsets are only in production for 12 to 18 months. To achieve 5+-year product availability, Ampro invests considerable resources in warehousing and tracking critical components, implementing "form-fit-function-compatible" product upgrades, and negotiating extended component availability with component suppliers. Also, Ampro is very careful about selecting processors from vendors that have an established track record of supporting the embedded systems market. Processor vendors that are clearly chasing risky, emerging or unproven markets are generally not considered by Ampro for products that embedded OEMs need to depend on.

### **The Best Value for Your Embedded Applications**

Ampro first received ISO 9001 certification in July 1994. Ampro embraces a Quality Management System that ensures products built in its worldwide manufacturing centers comply with all applicable standards and specifications as well as customer requirements.

Ampro's broad offering of products and solutions simplify your design and manufacturing tasks. For the widest range of embedded applications, you can depend on Ampro to deliver the best value across the board.