TenAsys®—Embedded Virtualization **Experts**

The world runs in **real time**—24 hours a day; 7 days a week.

Committed to Your Success

At TenAsys, we focus on innovation that supports your business growth, with the goal of preserving your development investment by ensuring long-life of your designs.

Our solutions offer a well-defined migration path to the benefits of evolving technology innovations, with the support that's needed to promote your solutions to new levels of performance and functionality.

Increasingly, today's embedded system engineers rely on some integration of virtualization in their designs. With new, more powerful multi-core platforms being introduced each year, designers have greater opportunities to leverage embedded virtualization technologies, enabling them to consolidate equipment, cut costs, and simplify their solutions.

But, not all embedded virtualization technologies are alike; a mere hypervisor does not provide an optimal environment for delivering effective solutions using embedded virtualization.

With 35 years of pioneering development and knowledge in RTOS and embedded virtualization, TenAsys offers a unique, innovative approach that supports mixed workloads, such as running Windows* and real-time environments side-by-side on the same hardware. TenAsys' embedded virtualization solutions utilize explicit partitioning, asymmetric multi-processing, and a balanced usage hypervisor technology to deliver an adaptable, scalable, efficient, and time-proven solution. Our products simplify designers' efforts and reduce the costs to deploy the system.

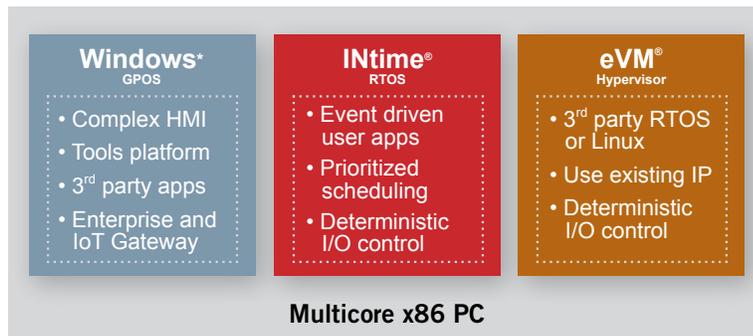## Innovators of **Embedded Virtualization Solutions**

TenAsys brings a legacy of strong technology expertise to its software products. Our solutions have proven themselves over several decades on mission-critical systems in fields as diverse as medical electronics, industrial control, robotics, test and measurement, and military applications. We are the embedded virtualization technology experts. And we work closely with customers to help ensure their real-time design success.

Partnerships—Solutions to **Successful Deployments**

TenAsys' solutions are strengthened by close relationships forged with other industry leaders. We integrate best-in-class technologies from Intel, Microsoft, and numerous specialty hardware and software partners to provide solutions that are configurable, extensible, and cost-effective. Developers can leverage the expertise, experience, and design knowledge from our partnerships to help accelerate their time to market and design optimizations.

TenAsys Software Platform

TenAsys products provide flexible support for diverse processing workloads.

Windows* GPOS	**INtime®** RTOS	**eVM®** Hypervisor
• Complex HMI • Tools platform • 3rd party apps • Enterprise and IoT Gateway	• Event driven user apps • Prioritized scheduling • Deterministic I/O control	• 3rd party RTOS or Linux • Use existing IP • Deterministic I/O control

Multicore x86 PC

Products

INtime® Software deploys real-time applications, either alongside Windows or as standalone applications, running on multi-core x86 PC platforms. INtime® for Windows* enables RTOS applications to run side-by-side with Windows on the same hardware, eliminating at least one PC in the system design. INtime® Distributed RTOS is a traditional, real-time operating system for embedded systems that takes advantage of available cores on a platform to run multiple applications with optimum configurability and absolute determinism. The INtime® Software Development Kit (SDK), based on Microsoft Visual Studio* tools, serves as the foundation for the development cycle of any INtime solution.

Consolidate your existing embedded, real-time and Windows applications on newer, more reliable, and more powerful Intel* Virtualization Technology-enabled platforms using **eVM® for Windows**. Our real-time, embedded virtualization technology replaces separate hardware subsystems, lowers system acquisition costs, reduces integration complexity, and enables the consolidation of new or existing control applications and operating systems onto a single system. eVM® for Windows builds on our unique approach that utilizes explicit partitioning combined with our hard real-time hypervisor (HaRTH™) technology. The result is a simultaneous, side-by-side deployment of native Windows that eliminates the need for a separate control unit. eVM® for Windows with TenAsys' embedded virtualization technology preserves the determinism of your existing applications due to its underlying real-time environment and allows direct access to your critical I/O, using native, unmodified drivers.

For more information, visit www.tenasys.com or contact one of our offices.

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A private corporation, TenAsys is headquartered in Beaverton, Oregon U.S.A., in the heart of Oregon's "Silicon Forest," with a global sales and support presence across the United States, Europe, and Asia.

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