# RTS Hypervisor

Harness the power of today's multi-core processors with the innovative Real-Time Systems Hypervisor. The powerful software is proven in thousands of systems worldwide. It permits multiple real-time and general-purpose operating systems to run concurrently on multi-core x86 processors. Designers attain increased flexibility in system design and remarkable enhancements to functionality and performance. This reduces both time to market and overall system costs.

Multiple systems – hard real-time

- Simultaneous operation of real-time and general-purpose operating systems
- Hard real-time
- Definable boot sequence
- Reboot of any OS at any time
- Determinism and maximum throughput with secure OS separation
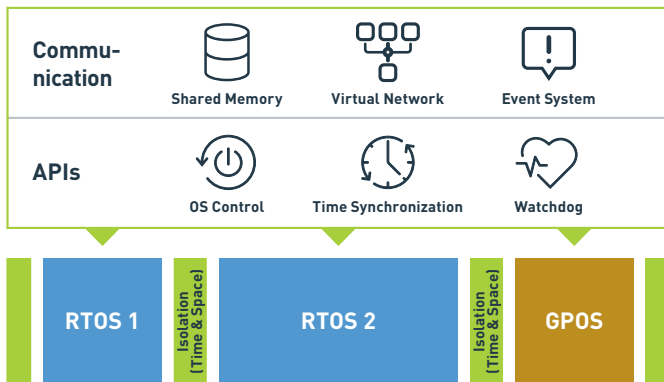- Use of existing OS device drivers and standard development tools
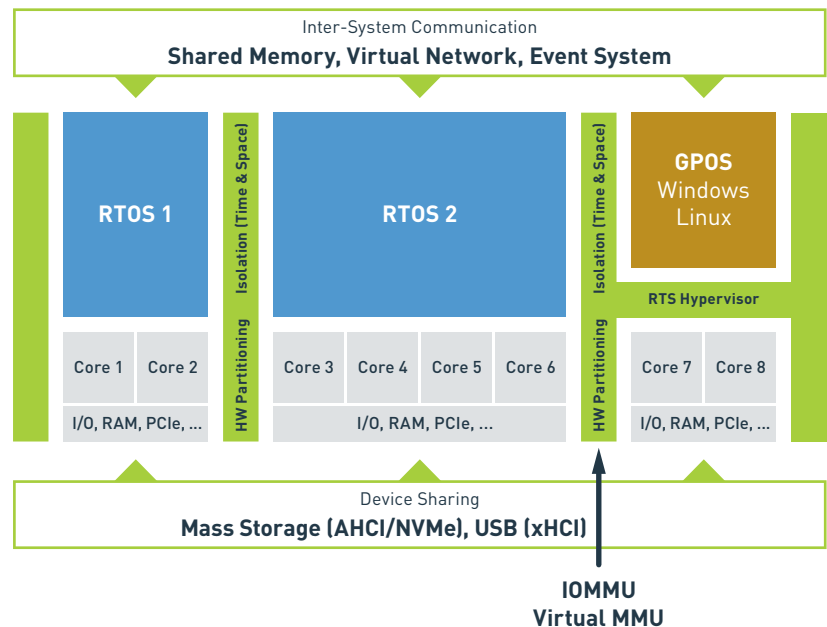
Hardware access

- Non-Uniform Memory Access (NUMA)
- Disk and disk partition assignment (AHCI/NVMe controller sharing)
- USB port assignment (xHCI controller sharing)
- Separation and locking of shared caches with Time Coordinated Computing (TCC)
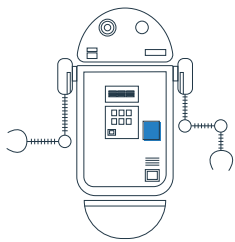- Seamless integration of commercial Fieldbus, EtherCat, TSN, etc.

Your benefits

- Reduced system costs and physical size
- Shorter time to market, maximum productivity
- Full flexibility in system functionality
- Longer mean time between failure
- Secure design
- Seamless operation out of the box, also with COTS and proprietary OSs
- Support from low-power modules to multi-socket servers

REAL-TIME SYSTEMS

Inter-system communication

Commu-nication	Shared Memory	Virtual Network	Event System
APIs	OS Control	Time Synchronization	Watchdog

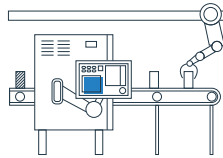RTOS 1 | Isolation (Time & Space) | RTOS 2 | Isolation (Time & Space) | GPOS

- Easy communication: Virtual Network (TCP/IP)
- Direct data exchange: Shared Memory with easy-to-use API
- High performance: Event System
- Time synchronization between OSs
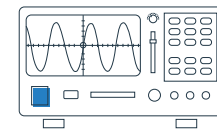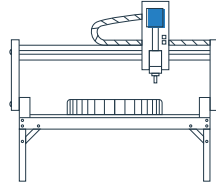- APIs to start, monitor, and stop guest operating systems
- Rights management

Applications

Robotics

Industrial automation

Test & measurement systems

Supported operating systems

BlackBerry QNX
Neutrino

Windows Embedded
Gold Partner

Windows

Real-Time LINUX

Zephyr

tenAsys
INtime

WNDRVR
VxWorks

On Time
REAL-TIME AND SYSTEM SOFTWARE
RTOS-32

MICROWARE
OS-9

XENOMAI

T-Kernel

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