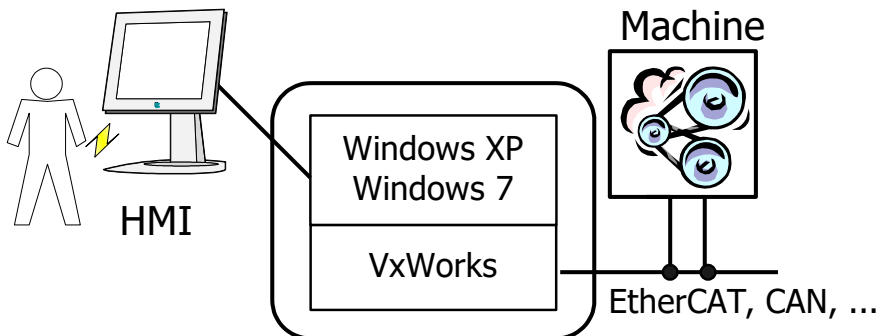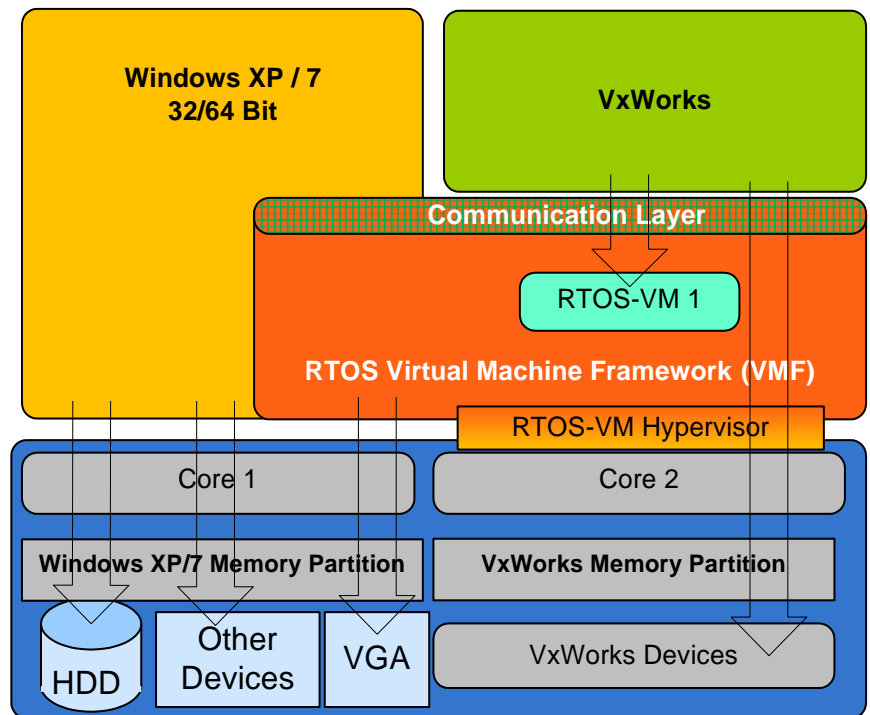# VxWin®

VxWin enables customers to run Wind River's VxWorks real-time operating system and Windows XP or Windows 7 on a single PC.

VxWorks is Wind River's market leading embedded real-time operating system.
Due to its deterministic hard real-time behaviour and sophisticated development tools it is used by leading manufacturers of industrial controllers. Typical applications are PLC, Motion Control and Numeric Control systems with high real-time requirements.

Technical Features

- Support for the latest Windows versions
  - Windows 7/10 32 Bit
  - Windows 7/10 64 Bit
- Fast interrupt handling without any delay on multi-core systems!
- Typical worst case timer interrupt latencies are about 5 microseconds on dual core CPUs and about 30 microseconds on single core CPUs

- VxWorks continues without real-time penalty after Windows Blue-Screen occurred.
- All currently available processors are supported, either with hardware virtualization (e.g. Intel-VT, AMD-V) or without (e.g. Intel Celeron, AMD Sempron), especially also:
  - **All** Intel Atom CPUs
  - **All** AMD Fusion CPUs

- Full support for quad core (or more) CPUs: Windows 7 and/or VxWorks may utilize multiple CPU cores
- Virtual Network connection between Windows and VxWorks (for application's TCP/IP communication and local debugging)
- Shared Memory, Events and Interlocked data access for high speed application level communication
- Debug Console for VxWorks Target Shell (low level application debugging, diagnosis)
- Timer-Adjustment API for IEEE1588 and EtherCAT synchronization
- The same VxWorks application can execute on any PC hardware (AMD, Intel, single core, multi core) without recompilation
- Integrated acontis technologies' **EtherCAT Master Stack** solution available