

EtherCAT Software



EC ↔ *Master*



**Best-in-class EtherCAT
MainDevice stack**

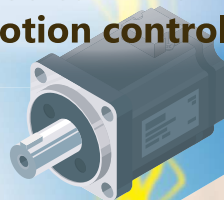
EC ↔ *Monitor*



Secure bridging to IoT

EC ↔ *Motion*

**Streamline
motion control**

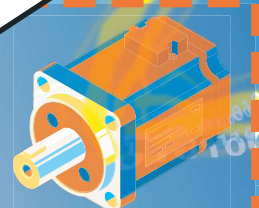


**The leading Experts for
Ether**CAT**® Software**

EC ↔ *Engineer*

**Innovative & user-friendly
configuration & analysis**

EC ↔ *Simulator*

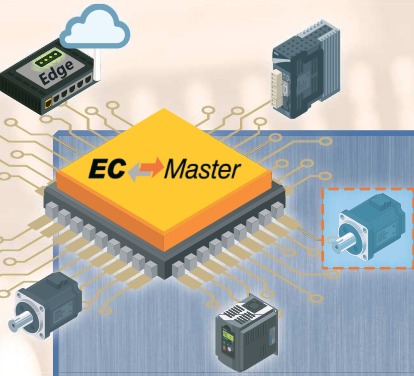


**Rigorous verification
& digital twins**

EtherCAT Software Real-Time Hypervisor



EtherCAT Software & Real-Time Hypervisor



The acontis EtherCAT MainDevice software is the core in countless EtherCAT networks - including machinery, aero-space, medical, automotive, measurement and many more industries.

Complementing to the EC-Master, acontis offers a full portfolio for all users of EtherCAT:
From development and verification, commissioning and supervision to maintenance and trouble-shooting.

Key Benefits of acontis EtherCAT software

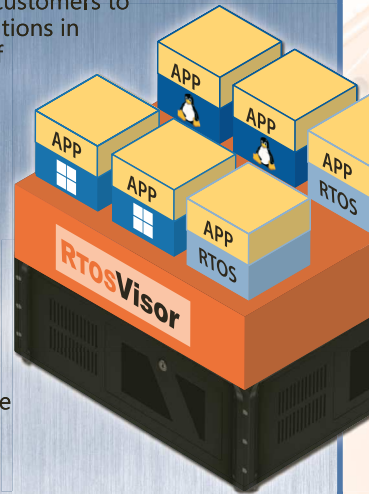
- High performance and low CPU load for fast update rates.
- Ready-to-run for many operating systems.
- Supporting all major CPU architectures: x86, ARM, RISC.
- Available for many processors from AMD, Broadcom, Intel, NXP, Nvidia, Renesas, Rockchip, ST, Texas Instruments, Qualcomm or Xilinx.
- Fast project realization by easy-to-use software and APIs, extensive documentation, examples and professional support.
- Most reliable and robust implementation, field-proven since 20 years in many high-profile controllers from Bosch Rexroth, Lenze, KUKA, Omron, Panasonic, Yaskawa and many more!

acontis EtherCAT portfolio

- EC Engineer** Most convenient configuration, commissioning and analysis of EtherCAT networks
- EC Simulator** Use digital twins for controller or device development, verification and virtual commissioning
- EC STA** EtherCAT MainDevice and Testing functions combined in one powerful tool
- EC Monitor** Link EtherCAT data to IoT and supervision systems independent from EtherCAT controller!
- EC Inspector** Monitoring and troubleshoot EtherCAT networks
- EC Lyser**

acontis is a renown provider of real-time virtualization solutions for x86 based systems, enabling customers to implement hard real-time applications in combination with the flexibility of Windows®.

Real-time Hypervisors are virtualization technology designed specifically for systems where timing and deterministic performance are critical, such as industrial controllers. Unlike traditional Hypervisors, real-time Hypervisors maintain the deterministic performance of real-time operating systems (RTOS) alongside general-purpose operating systems like Windows or Ubuntu.



Key Benefits of acontis Real-Time Hypervisor

- Consolidation of Multiple Applications
- Support for range of operating systems & RTOS
- Enhanced Security through Virtualization
- Combining virtualization and para-virtualization including pass-through hardware access for best performance
- Broad Industrial Application Support

acontis Real-Time Hypervisor portfolio

- RTOSVisor** Type 1 RT-Hypervisor for maximum performance and flexibility - combining multiple operating systems and applications on a single device.
- LxWin** Type 2 RT-Hypervisor packages for easy setup and best performance - also available in combination with acontis EC-Master to realize top-class EtherCAT controllers.
- VxWin**
- RtaccWin** Innovative technology to realize hard real-time applications on Windows - perfect for former users of Windows CE