

Press Release

SolidRun and Acontis Partner to Release Highly Compact TI AM64x System on Module (SOM) for Robotics and Automation Applications

SolidRun's TI AM64x SOM, with Acontis' EtherCAT Master Stack, provides a complete solution for implementing industrial Ethernet protocols and controlling sets of motors for robotics. SolidRun announces the release of the highly compact [TI AM64x System on Module \(SOM\)](#) based on the Arm®-based AM64x processor family from Texas Instruments (TI). The TI AM64x SOM implements a combination of features for robotics and automation applications. These features include two Arm Cortex®-A53 64-bit CPUs for Linux™ applications (Debian or Yocto), four Cortex®-R5F CPUs for real-time applications (FreeRTOS or Zephyr), and 2 Programmable Real-Time Units (PRUs) for executing RISC instruction sets, for processing Ethernet frames, or for controlling several sets of PWM outputs. This makes the TI AM64x SOM the ideal tool for implementing industrial Ethernet protocols such as EtherCAT, Profinet, TSN, and controlling sets of motors for robotics.

The TI AM64x SOM from SolidRun measures only 47 x 30 mm and offers a full system that can be connected to an I/O card through board-to-board connectors, reducing the time and risk on development for new solutions based on the TI AM64x processor family. To speed up development further, SolidRun is offering fully equipped I/O (HummingBoard) boards, removing the need for any hardware development. These carrier boards can be optimized and adapted for mass production either by the customer or by SolidRun.

For implementing EtherCAT, SolidRun is partnering with Acontis to bring their EC-Master software to our TI AM64x SOM platform. [Acontis Technologies](#) is a leading provider of EtherCAT technology, Windows real-time software, and Real-Time Hypervisor Technology. EtherCAT Master Stack EC-Master is a leading product in EtherCAT Industrial Communications. Many important companies worldwide rely on the quality and rich amount of functionality offered by EC-Master for their EtherCAT controller products. The EtherCAT Technology Group's engagement in several working groups ensures full compliance with EtherCAT standards and interoperability with all available EtherCAT slave devices. Acontis EC-Engineer software serves as a powerful EtherCAT configuration and diagnosis tool, which can be integrated into customer applications. Acontis' real-time EtherCAT network simulation software EC-Simulator enables testing and commissioning of an EtherCAT network without real slave devices.

About SolidRun

SolidRun is a global leading developer of embedded systems and network solutions, focused on a wide range of energy-efficient, powerful and flexible products. Our innovative compact embedded solutions are based on ARM and x86 architecture, and offer a variety of platforms including SOMs (System-on-Module), SBCs (Single Board Computer) and industrial mini PCs.

We offer a one-stop-shop for developers and OEMs, providing a complete service from hardware customization, to software support and even product branding and enclosure design. Our mission is to simplify application development while overcoming deployment challenges, and so we can proudly offer our customers faster time-to-market and lower costs.

About Acontis

acontis technologies GmbH is a leading provider in the fields of EtherCAT technology, Windows Real-time Software and Real-time Hypervisor technology. The product portfolio is supplemented by training, support and software services. Acontis has been an active member of the EtherCAT Technology Group (ETG) since 2004 and has been offering EtherCAT Software products worldwide since 2006 with international sales partners worldwide. The company is known for high product quality "Made in Germany".