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Press Release

A proven platform for machine-specific control

Kendrion develops ECONO into an open automation platform

Machine builders and OEMs are looking for proven, production-ready control platforms with hardware and software that can be tailored to each machine's requirements. In response to demand seen in numerous customer projects, Kendrion has further developed its ECONO automation platform. The idea behind it: enable customization without having to develop a new controller for every application.

In practice, machine builders require additional communication interfaces, specific safety functions and I/O configurations tailored to their applications. They also want to develop their own software using modern development methods.

"Over the past few years, we have seen very similar requirements across different industries," explains **Nico Heinrich, Product Manager Control Systems** at Kendrion. "Customers do not want to embark on a new hardware development project. We have continued to develop the ECONO platform in response to these requirements."

The platform adapts to the machine

Two hardware platforms are available: the embedded IPC ECONO and the FIO Controller, which includes FIO I/O expansion and an EtherCAT master. Both systems can be configured with the processing power and memory capacity the application requires. The computing platform is based on industrial-grade Raspberry Pi module technology, ensuring long-term availability. An integrated option slot allows additional hardware functions, such as communication interfaces, to be added to the existing device architecture.

The software can also be tailored to the application. A preinstalled, industrial-grade Linux operating system enables machine builders to apply their own application and process expertise. Three software variants are available for each hardware platform: ECONO open allows users to program in high-level languages such as C++ or Python and is prepared for integration with project-specific interfaces. ECONO FLECS includes FLECS Core preinstalled, making it ready for automation apps from the FLECS Marketplace. ECONO PLC comes with the CODESYS Soft PLC preinstalled.

Depending on the software variant, machine functions can be customized and developed independently using open programming, container technologies, or CODESYS. Kendrion's open platform also includes cybersecurity mechanisms for controlled, secure operation.

Support from development to series production

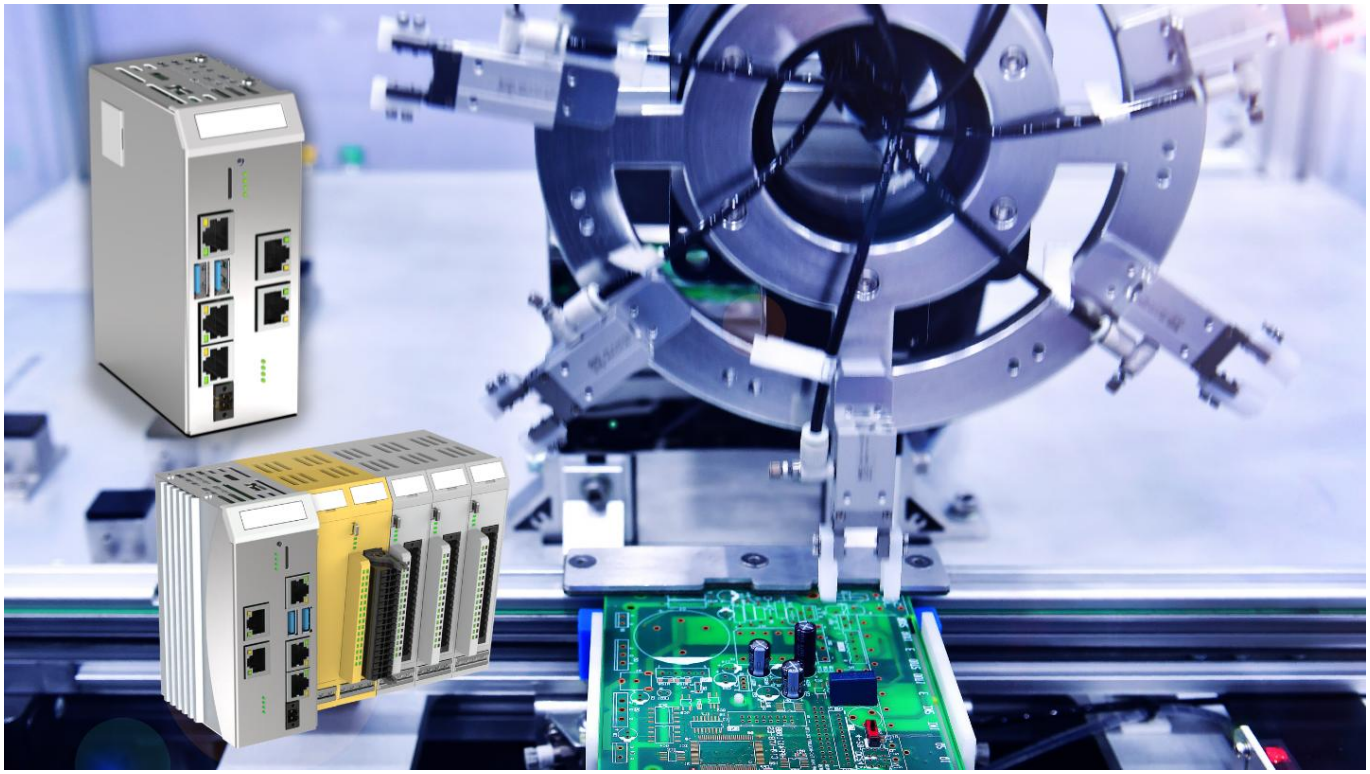
In collaboration with the customer, Kendrion develops a solution tailored to the application, based on ECONO or the FIO Controller. The company adds the necessary hardware and software functions and

adapts the system to the machine's peripheral equipment. The resulting device architecture can also form the basis for a customized device intended for series production. Kendrion assists customers with application-specific design and integration, and supports the transition to series production.

Kendrion will showcase its enhanced ECONO family as an open automation platform at SPS 2026 in Nuremberg from 24 to 26 November. Visit Kendrion in Hall 4, Booth 418.

(3,118 characters incl. spaces)

Images (attachment available with and without branding)



Kendrion_ECONO_Open_Automation_Platform.png: The open ECONO automation platform enables application-specific machine solutions based on either the Embedded IPC ECONO or the FIO Controller with FIO I/O extensions.
Image: *Kendrion*



ECONO_Platform_Industrial_Automation.png: The open ECONO automation platform offers two hardware options for application-specific machine solutions: the ECONO embedded IPC (top) and the FIO Controller with FIO I/O extensions (bottom). Image montage featuring an automation system for illustrative purposes.
Image: *Kendrion*



Kendrion_ECONO_Platform_Montage.png: The open ECONO automation platform enables application-specific machine solutions based on either the Embedded IPC ECONO (top) or the FIO Controller with FIO I/O extensions (bottom). Composite image featuring a filling machine as an illustrative setting.
Image: *Kendrion*



Kendrion_FIO_Controller_Extensions.png: The FIO Controller with FIO I/O extensions provides an adaptable hardware platform for application-specific machine solutions.
Image: *Kendrion*



Kendrion_ECONO_Embedded_IPC.png: The processing power and memory capacity of the Embedded IPC ECONO can be adapted to the requirements of each machine.
Image: *Kendrion*

About Kendrion
Innovative solutions for tomorrow - built on precision, safety, and motion.
Kendrion is shaping the future with high-precision brakes, electromagnetic components, fluid technology, control systems, and embedded systems. Our solutions offer precise control, maximum safety, and smooth motion across a wide range of applications – from machinery and robotics to high-end technology, automation, medical and energy sectors, mobility, and process industries.
With a broad portfolio of off-the-shelf products and a project-based approach, we work closely with our customers to deliver customized solutions tailored to their needs. By leveraging our deep technical expertise across multiple technologies and the flexibility to integrate them intelligently, we provide systems that are ready for tomorrow's challenges. Kendrion's deep engineering knowledge and cross-technology capabilities make us a trusted partner for creating innovative and reliable solutions across industries.
Rooted in Germany, headquartered in the Netherlands, and listed on Euronext Amsterdam, Kendrion's expertise spans Europe, the Americas, and Asia. For more than a century, we've engineered precision parts for the world's leading innovators in industrial applications, making us a trusted partner for creating reliable, cutting-edge solutions across industries.

https://www.kendrion.com/en/
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Keywords: Econo, Econo 228, Econo 328, open automation platform, machine control, industrial automation, mechanical engineering, OEM, Raspberry Pi, Linux, EtherCAT, FIO, Econo SDK, FLECS, cybersecurity, application-specific control, series-production device, Kendrion, SPS

Deeplinks:
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Data sheet | Econo 228/328

Meta-Title: ECONO: open automation platform | Kendrion

Meta-Description: With ECONO, Kendrion combines a standardised hardware platform with customised hardware and software, from machine applications to series production.

Download-Area: www.koehler-partner.de/pressezentrum/kendrion

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