ASRock Industrial News May 2025

ASRock Industrial Pioneers AiFDO as the First Zero-Touch Secure Onboarding Solution for Edge AIoT and Automation

The future of edge AI and industrial automation isn't just about deploying more devices, it's about deploying them faster, smarter and more securely at scale. ASRock Industrial introduces AiFDO (ASRock Industrial FIDO Device Onboarding), a newly developed zero-touch, automated, and highly secure onboarding solution based on the FIDO Alliance industry standard. This innovative solution is designed to streamline device provisioning and onboarding for industrial AI, automation, and edge computing across diverse industries, including smart factories, industrial automation, smart cities, and retail.

As industries move toward AI-driven manufacturing, predicative analytics, and large scale automation, companies require a faster, more secure, and scalable way to configure and deploy industrial devices.

AiFDO eliminates complexity, enabling secure, automated, and scalable device deployment from factory to field without human intervention. As part of ASRock Industrial's commitment to Open Process Automation™ Forum (O-PAS™), AiFDO is built to support vendor-neutral, software-defined industrial control systems, ensuring seamless integration across modern industrial infrastructures. More than just a device onboarding tool, AiFDO is a transformative solution that accelerates industrial and edge AI adoption, strengthens cybersecurity, and ensures future-proof interoperability.

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A New Era for Seamless, Secure, and Scalable Edge AIoT and Industrial Deployment

Digital transformation is no longer just an evolution, it's a necessity. From smart factories and AI-driven automation to edge computing at hyperscale, the ability to deploy systems efficiently and securely determines the future of industrial and edge intelligence. AiFDO is engineered for this era, enabling:

Zero-Touch, Scalable Deployment – Devices automatically configure upon first boot, reducing setup time, cost and eliminating manual intervention.

Exclusive Bare Metal FDO Onboarding – AiFDO utilizes an exclusive Bare Metal FDO onboarding technology, enabling devices to be deployed directly from bare metal, enhancing deployment flexibility and scalability.

Enhanced Security with FIDO Authentication – AiFDO integrates cryptographic authentication and tamper-proof security, ensuring only trusted devices connect to industrial networks.

Cloud & On-Premise Compatibility – Works seamlessly across industrial networks, cloud infrastructures, and hybrid environments.

Built for Edge AIoT and Smart Factories – Supports AI-driven software and OS deployment at scales, facilitating autonomous manufacturing and smart edge infrastructure.

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Advancing Open, Secure, and Intelligent Industrial and Edge Computing
As edge AI and IoT deployment scale, enterprises require solutions that reduce complexity, enhance security, and ensure seamless deployment. AiFDO is a major step forward, providing businesses with the tools to efficiently scale edge AI, automation, and edge computing across various industries, from smart factories and industrial automation to smart cities and retail environments. "With AiFDO, we are redefining industrial device deployment, eliminating complexity while ensuring security and flexibility," said James Lee, Chairman of ASRock Industrial. "This solution represents our ongoing commitment to providing intelligent, scalable, and future-ready industrial computing solutions. By combining FDO security, Open process Automation™ Forum (O-PAS™) principles, and zero-touch deployment, AiFDO enables businesses to deploy at scale, faster, smarter, and with greater confidence."

Designed for ASRock Industrial's System Products
AiFDO is designed to work seamlessly with ASRock Industrial's full range of system products, enabling secure and automated device onboarding. Furthermore, the iEP-5010G has received the FIDO Device Onboard (FDO) certification, ensuring advanced and secure edge computing deployment. The solution supports secure device deployment across cloud-based and private network infrastructures, ensuring maximum flexibility for industrial applications. By integrating AiFDO with ASRock Industrial's computing platforms, enterprises gain a fully automated, highly secure onboarding framework, accelerating industrial AI and automation deployment with zero-touch provisioning.

Availability
The AiFDO Experience Package is now available, providing enterprises with a seamless path to zero-touch deployment for industrial edge computing. For more information, visit our Website or contact us via Product Inquiry.

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