Enclustra and MakarenaLabs Partner to Bring Edge AI Orchestration Across Enclustra's Complete System-on-Chip Portfolio

MakarenaLabs' MuseBox — offered on Enclustra hardware as Lira — brings complete, locally run AI pipelines to Enclustra's System-on-Modules



Enclustra and MakarenaLabs Partner on Edge AI Orchestration

ZURICH, ZURICH, SWITZERLAND, September 21, 2026 / EINPresswire.com/ -- Enclustra GmbH, a leading provider of FPGA and SoC-based System-on-Modules (SoMs), today announced a partnership with MakarenaLabs to bring hardware-accelerated Edge AI orchestration across its full SoC, MPSoC, and MLSoC portfolio.

The partnership brings MakarenaLabs' MuseBox — offered on Enclustra hardware as Lira — to developers building real-time, on-device intelligence. Lira connects live data sources, accelerates inference in hardware, and deploys results to dashboards, actuators, or external systems, entirely at the edge, with no mandatory cloud dependency.

> Partnering with MakarenaLabs extends Enclustra's reliability to the AI layer, giving our customers a tested path from silicon to a working edge AI pipeline — on hardware they already trust.”
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> *Philipp Baechtold, CEO of Enclustra*

“At Enclustra, we’ve spent two decades building FPGA and SoC modules that engineering teams trust to work reliably in the field,” said Philipp Baechtold, CEO of Enclustra. “Partnering with MakarenaLabs extends that reliability to the AI layer, giving our customers a tested path from silicon to a working edge AI pipeline — on hardware they already trust.”

“We saw this partnership as a combination of Italian tailoring and Swiss watchmaking. Enclustra

brings the precision, reliability, and engineering excellence of Swiss hardware; at MakarenaLabs, we've tailored the AI layer around it to fit real market needs," said Enrico Giordano, CEO and CTO of MakarenaLabs. "This partnership comes from years of engineering and market research focused on one goal: making Edge AI easier to adopt and faster to bring into real products — a production-ready platform that removes uncertainty and gives developers a clear path from AI concept to deployment."

Within the Enclustra ecosystem, MakarenaLabs MuseBox technology is offered under the name Lira

Enclustra FPGA-based Edge Solutions

Because Lira runs across Enclustra's SoC, MPSoC, and MLSoC modules, teams can scale from compact standalone deployments to high-performance, multi-accelerator pipelines using the same framework. Out-of-the-box capabilities include face detection and recognition, object detection and depth estimation, and hand and face landmarking, with real-time video, image, and audio processing, WebSocket integration, and an optional No-Code GUI.

The combined platform targets Smart City, Medical & Healthcare, Industrial Inspection, Defence, and Robotics applications, where local, real-time decision-making is critical, and cloud connectivity can't always be guaranteed.

Lira, powered by MuseBox, will be available soon across Enclustra's SoC, MPSoC, and MLSoC System-on-Modules. Read more at: www.enclustra.com/en/company/news-events

About Enclustra
Enclustra is a Swiss-based innovator in FPGA and Edge AI System-on-Chip technology, shaping the future of high-performance embedded solutions. With headquarters in Zurich, a Center of Excellence in Singapore, and offices in Germany, Singapore, the USA, and China, supported by a global partner network, Enclustra serves industrial, aerospace, and research organizations worldwide. Its portfolio spans FPGA-based modules, optimized IP solutions, edge AI and end-to-end engineering services that cover hardware, firmware, embedded software, and prototyping. Learn more at www.enclustra.com.
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About MakarenaLabs
MakarenaLabs is an Italian technology company specialising in Edge AI, Digital Twin technologies, FPGA-based computing systems and embedded systems. The company designs, develops, and integrates AI solutions directly into edge systems, combining high-performance AI inference, real-time processing, and hardware acceleration. Its technologies address a wide range of markets, including industrial automation, AgriTech, medical imaging, robotics, computer vision, and smart embedded systems
MakarenaLabs developed MuseBox, a flexible runtime and orchestration framework for real-time Edge AI applications, designed to simplify the deployment, integration, and management of AI models, hardware accelerators, sensors, and processing pipelines. Through its No-Code GUI, MuseBox enables developers to build and orchestrate complex Edge AI applications while reducing software integration effort and accelerating time-to-market.
Within the Enclustra ecosystem, MuseBox technology is offered under the name Lira, combining Enclustra's high-performance FPGA System-on-Modules with MakarenaLabs' expertise in Edge AI, software, and hardware acceleration to provide an integrated platform for the rapid development of production-oriented AI applications. Learn more at: www.musebox-ai.com
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