# New European Semiconductor Company, Vybium, develops European AI/ML accelerators based on the Stream Computing NPU IP

*Vybium is a fabless semiconductor startup building RISC-V-based solutions that will support European Digital Strategic Sovereignty & Semiconductor self-reliance*

VIENNA, AUSTRIA, July 3, 2024 /EINPresswire.com/ -- Last week, the RISC-V Summit Europe in Munich introduced Vybium, an emerging European startup dedicated to AI Accelerator products.

Vybium aims to enhance European digital strategic autonomy through its innovative RISC-V-based solutions.

Vybium operates as a fabless semiconductor company, currently in stealth mode. [Founded by VRULL (Austria) and Software Ecosystem Solutions (Albania)](), Vybium focuses on developing AI-accelerated solutions leveraging the RISC-V ISA across various verticals.



The STCP920, shipping since in 2021, incorporates the Stream Computing NPU IP and rivals the Nvidia A10 in performance.

To expedite its market entry, Vybium emphasizes the development of industry-leading AI/ML solutions with comprehensive end-to-end software support.

To swiftly achieve best-in-class performance, Vybium has licensed NPU IP from Stream Computing, enhancing it with new data types, sparsity support, and higher-bandwidth memory solutions.

"Vybium is committed to delivering products developed in Europe that reflect the European perspective, providing end-to-end RISC-V solutions tailored to the needs of European industrial companies," said Dr. Philipp Tomsich. "The rapid growth of AI/ML across applications has shifted customer priorities. We address these needs promptly with our [production-proven NPU IP from Stream Computing](#)."

Andy Mei, CEO of Stream Computing, added, "Empowering Vybium to develop their silicon by innovating on our NPU IP accelerates the development of European AI/ML accelerators to compete with Nvidia. This shared technology base supports broader, open-source software enablement, creating a true win-win."

Vybium's initial product line will focus on AI/ML accelerator cards, aiming to compete with Nvidia's A100 family. Subsequent designs will integrate RISC-V general-purpose compute with AI/ML for embedded, industrial, and edge applications, following the initial focus on datacenter, cloud, and enterprise AI/ML acceleration.



Dr. Philipp Tomsich, Founder & Chief Technologist of VRULL and Andy Mei, CEO of Stream Computing introducing Vybium at the RISC-V Summit Europe.



Stream Computing AI accelerator card using NPU IP

Positioned as a formidable alternative to industry leaders, Vybium leverages VRULL's software expertise and Stream Computing's advanced NPU IP. This strategic partnership enables Vybium to deliver cutting-edge RISC-V AI/ML technologies with superior performance. As Vybium advances, it will play a critical role in driving European semiconductor innovation, enhancing digital independence, and providing robust solutions for industrial and enterprise applications across Europe and beyond.

About Vybium:

Vybium is a European semiconductor startup specializing in AI Accelerator products. Focused on delivering cutting-edge RISC-V-based AI/ML solutions, Vybium aims to contribute to Europe's mission for strategic digital autonomy and semiconductor innovation in industrial and enterprise applications.

Vybium is currently operating in stealth mode.

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