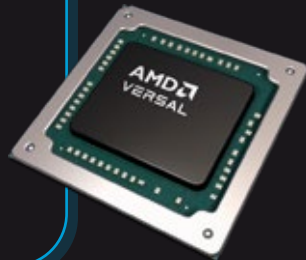




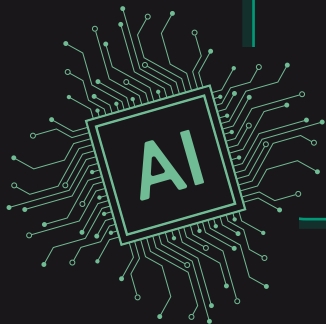
IP Cores and Solutions
for Programmable FPGA/SoC



Computer Vision
and AI Design Services



ARTIEYE[®]
by Xylon



FPGA & Adaptive SoC Designs. Powering Your Innovation.

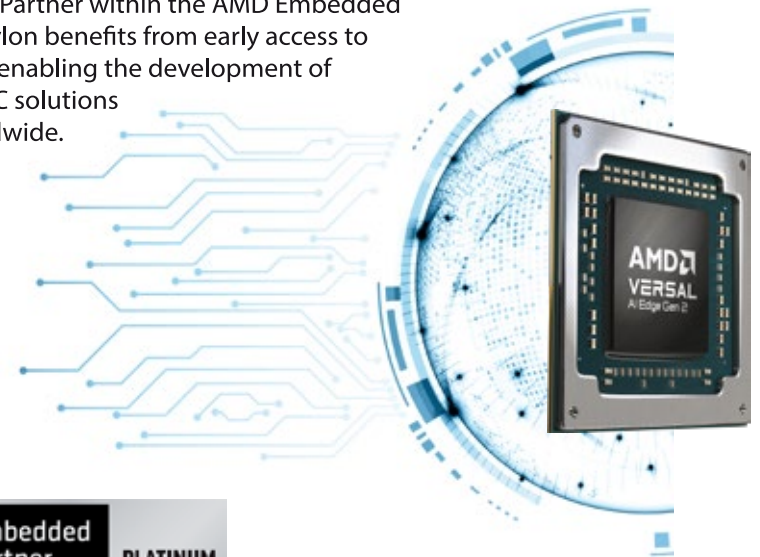
Founded in 1995 in Zagreb, Croatia, Xylon is a specialist FPGA/SoC IP provider and design services company focused on embedded electronics. Its IP product lines include the logicBRICKS IP core library, featuring IP cores optimized for embedded graphics, video, and image processing, as well as ARTIEYE[®] products for computer vision applications.

Xylon's IP enables the rapid development of high-performance systems based on AMD[®] programmable devices. It is tightly integrated with AMD toolchains, supporting efficient SoC development, improving design productivity, ensuring high-performance system-on-chip implementations, and reducing development and production costs.

The team consists of more than 70 engineers specializing in FPGA development, embedded software, and system design. Since its foundation, Xylon has operated globally, delivering hundreds of FPGA and SoC designs to customers across Europe, Asia, and the USA, and supporting international development projects and deployments.

The company serves multiple industries, including automotive (ADAS, data logging, HIL), industrial, medical, defense, and consumer electronics, with a strong focus on high-performance vision systems, as well as supporting advanced automotive data logging and HIL platforms.

As an AMD Premier Partner within the AMD Embedded Partner Program, Xylon benefits from early access to AMD technologies, enabling the development of advanced FPGA/SoC solutions for customers worldwide.



Embedded
Partner
Network

PLATINUM

www.logicbricks.com

Reliable IP cores, programmable solutions and design services you can trust



IP Cores

Optimized for AMD FPGA/SoCs and fully integrated with AMD development tools, these IPs help engineers reduce development time and costs. Designed for reusability, logicBRICKS IPs can be configured through an intuitive GUI and controlled using provided software drivers.

Eval/Proto HW

Early IP evaluation and successful prototyping on embedded hardware are often critical for project success. To support its customers, Xylon offers a wide range of development kits and add-on boards, including popular FMC boards for multi-camera applications.



Reference Designs

Designing complex FPGA or SoC systems from scratch can be challenging and time-consuming. Xylon's reference designs help jump-start development by providing all essential components and functional software, and can be used with evaluation hardware.

XYLON HEADQUARTERS

Xylon d.o.o.
Vodovodna 20/1
10 000 Zagreb, Croatia-Europe

tel: +385-1-368-0026
e-mail: info@logicBRICKS.com

XYLON JAPAN

Nishi-Shinjuku
Mizuma Building 6F
3-3-13 Nishi Shinjuku, Shinjuku-Ku
160-0023 Tokyo, Japan

e-mail: info@logicBRICKS.jp

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Accelerated AI for Machine Vision. Made Simple.

Xylon has been among the early adopters of AI on AMD adaptive SoCs, with extensive experience in implementing efficient edge vision AI solutions. A key example of Xylon's ARTIEYE portfolio is a fully in-house developed Driver Monitoring System (DMS) technology suite.

Our AI capabilities are built on a strong, multidisciplinary engineering foundation combining machine learning, embedded systems, FPGA/SoC development, and hardware design expertise. The Machine Learning & AI team covers the full AI pipeline, from dataset build-up and laboratory-based training environments to Deep Neural Network (DNN) architecture design, pruning, and model optimization. The Embedded Software team develops low-level drivers, firmware, and application-level software, while also providing system-level consultancy. The FPGA/SoC team focuses on efficient AI implementation on AMD adaptive SoCs, performing architecture design, optimization, and porting across chip families.

Your Full-Service Partner. From Design to Production

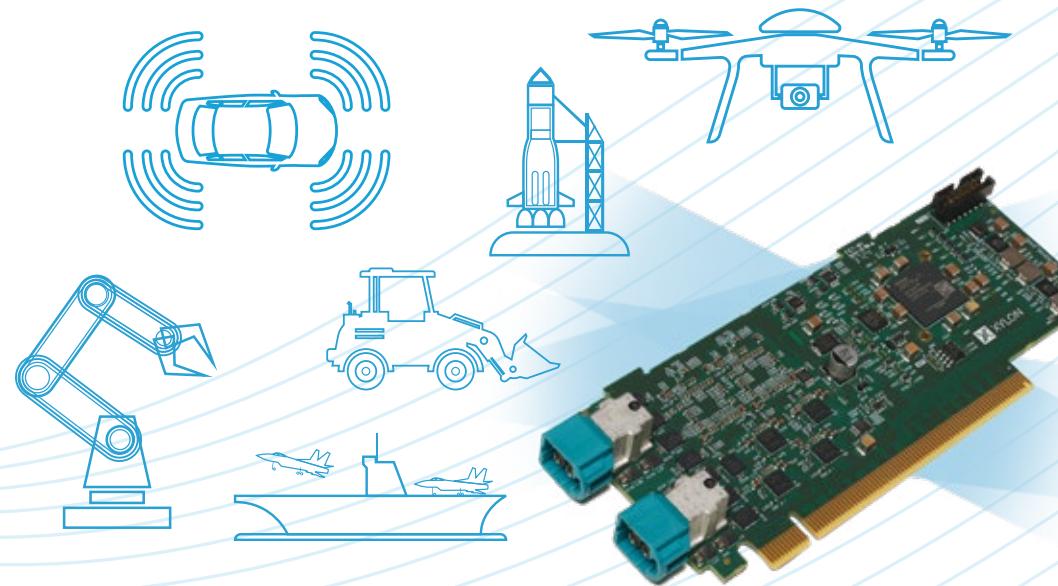
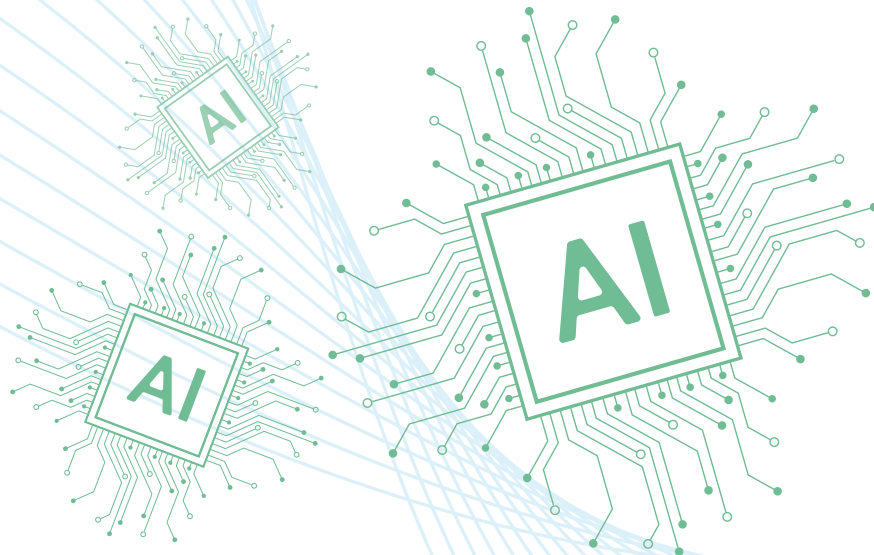
One partner for design, development
and deployment-ready hardware

Xylon operates as a true one-stop-shop for embedded and AI-driven system development, covering the entire product lifecycle from initial idea to final production-ready solution. With a team of over 70 highly qualified engineers, Xylon delivers high-quality designs within short development cycles while continuously improving performance and expanding its portfolio of hardware and software solutions.

The company supports customers through all project phases, including concept development, specification, system design, implementation, integration, consulting, maintenance, and long-term technical support. Xylon's multidisciplinary expertise enables seamless delivery of full turn-key solutions tailored to demanding applications such as automotive testing, edge AI systems, robotics, and other advanced markets.

Development spans schematics and PCB design, FPGA/SoC development, embedded firmware, application software, rugged mechanical housings engineered for harsh environmental conditions and coordination with production facilities for scalable manufacturing of prototypes and smaller series.

Through tightly integrated hardware, software, and AI expertise, Xylon transforms ideas into fully validated, production-ready products.



Featured Solutions



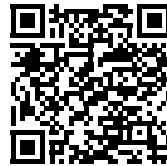
HDR ISP IP Suite

Quickly design high-quality camera video for challenging and dynamic lighting conditions using logicBRICKS IP cores evaluation hardware, ISP tuning services, and the PC-based Xylon ISP Studio application.



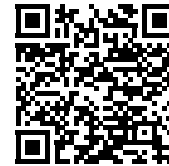
Vision AI Framework

Configurable logicBRICKS Vision AI Framework empowers AI engineers by simplifying the technical details of AMD adaptive SoC designs, allowing them to focus on AI development.



DFX+IDF Framework

Quickly master AMD Dynamic Function eXchange (DFX) and Isolation Design Flow (IDF). DFX enables on-demand feature updates by dynamically reconfiguring regions of a continuously running chip.



Driver Monitoring System



ARTIEYE DMS Suite enables rapid development of customized edge AI DMS systems. It includes HW/SW IP, demo HW, test datasets, biomedical ground-truth data, optimized networks, HIL equipment, and more.



12-CH GMSL3 FMC Card

The FMC+ add-on card connects up to 12 video cameras to FPGA/SoC evaluation kits via automotive GMSL3 and GMSL2 high-speed serial links for video, audio, and communication.



XYLON QUATTRO

Future-proof device with 128 Gbps of logging and playback bandwidth, 128 TB of data storage, industry's best automotive interfacing, open software architecture, and HIL capabilities.

