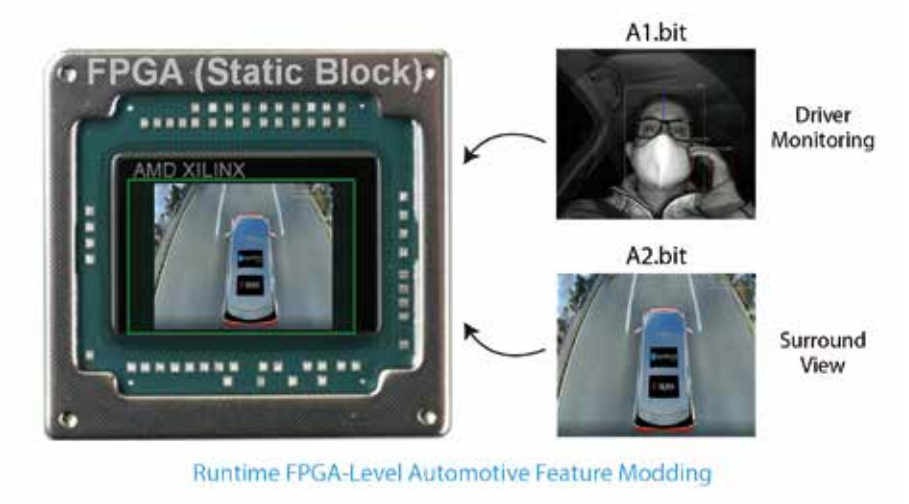
Dynamic Function eXchange (DFX) Framework v2.0

Xylon DMS/Surround View Automotive ADAS Demo

This Xylon demo unit demonstrates Dynamic Function eXchange (DFX) from AMD-Xilinx, highlighting the ability to change a system's internal architecture and functionality of a continually operating programmable FPGA/SoC chip – within milliseconds and without interruption. The demo features both Xylon's ARTIEYE Driver Monitoring System (DMS) and Xylon's ViewMore™ Natural Surround View 3D parking assistance solution, which can be alternated depending on the vehicle's speed and mode of operation.



Runtime FPGA-Level Automotive Feature Modding

System Flexibility – swap functions on the fly while being able to update your applications without any overhead cost.
Cost, size and power usage – multiplexing of HW features enables use of smaller, cheaper and power efficient chips and minimized bitstream storage requirements.
Functional Safety – DFX increases fault tolerance due to usage of modern safety design methodologies like Isolation Design Flow (IDF) and on-chip monitoring features (SEM IP Core).

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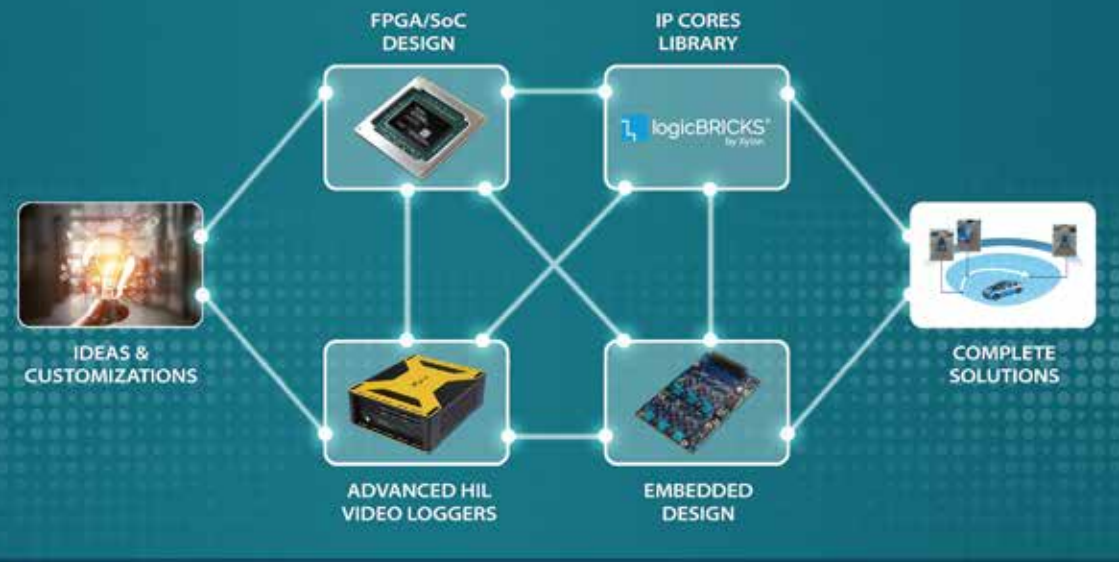

logicBRICKS® by Xylon

Xylon is an expert in designing embedded systems, intellectual property and design services based on programmable FPGA and SoC/MPSoC - under the logicBRICKS trademark!

Xylon brings the complete design framework to explain and demonstrate to users how to quickly get a grasp of a number of demonstrated key technologies: Dynamic Function eXchange (DFX), Isolation Design Flow (IDF) and use of the Soft Error Mitigation (SEM) IP for increased design Functional Safety.

https://www.logicbricks.com/Solutions/logiREF-DFX-IDF.aspx

The logiREF-DFX-IDF Design Framework does not support demonstrated automotive DMS and Surround View applications!