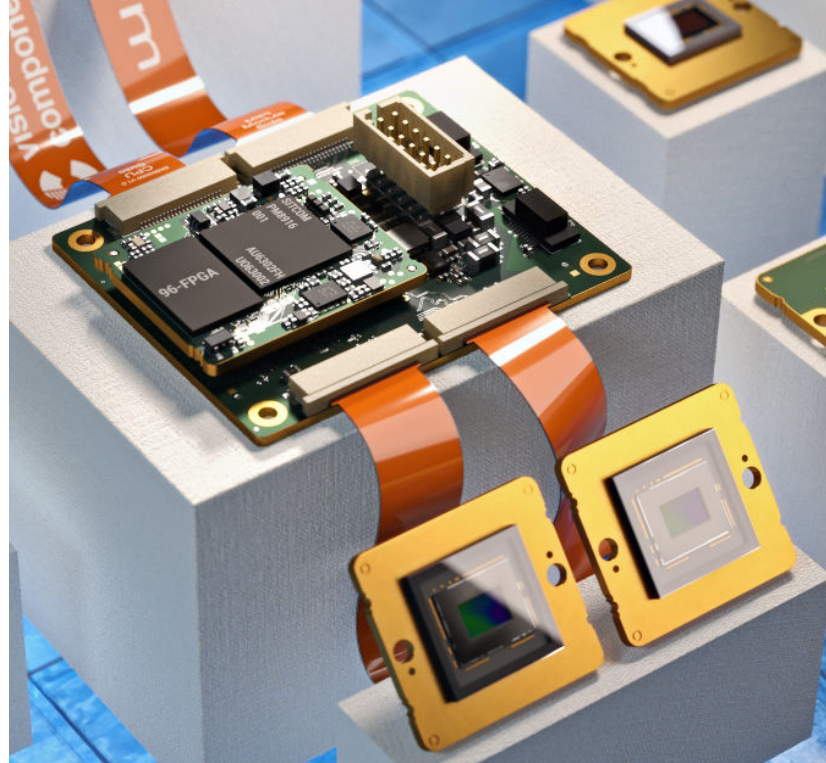# VC Power SoM

Hardware Accelerator for Embedded Vision

Greater Flexibility in Embedded Vision Designs

VC Power SoM is an FPGA-based hardware accelerator that handles complex image pre-processing, can be easily integrated into the design of embedded vision electronics and allows more flexibility in processor board selection. Measuring only 2.8 cm x 2.4 cm, the tiny module provides image processing such as color space conversions, barcode identification, and data fusion of stereo vision and multi-camera applications.

Initially, VC Power SoM is available with open FPGA for cus- tomer programming and with demo applications. For series productions, VC Power SoM can either be combined with an already available carrier board with multiple MIPI inputs and outputs. Alternatively, it can be integrated directly into the design of a mainboard as a building block.

FPGA-based hardware accelerator

✓ Powerful: 120.000 logic cells

✓ Ultra compact: only 2.8 cm x 2.4 cm

✓ Direct design-in or via carrier board

✓ Flexible solution

Possible image processing

✓ Color space conversion

✓ Barcode identification

✓ Data fusion (stereo / multivision)

✓ AI models etc.

VC Power SoM is only 2.8 cm x 2.4 cm small and can be flexibly integrated into electronic designs.

The OEM module is the ideal basis for ultra-compact stereo cameras with onboard data fusion for 3D applications, etc.