PRODUCT BRIEF



Kria[™] KV260 Vision AI Starter Kit

OVERVIEW

The first starter kit in the Kria[™] portfolio, the KV260 Vision AI Starter Kit is an outof-the-box platform for advanced vision application development. Priced at \$199, the KV260 is equipped with a non-production version of the production K26 SOM. This SOM and fansink are mounted to an evaluation carrier card optimized for vision applications, featuring multi-camera support via ON Semiconductor Imager Access System (IAS) and Raspberry Pi connectors.

Enabled by a growing ecosystem of accelerated applications for the KV260 Vision AI Starter Kit, developers of all types can get applications up and running in under 1 hour, with no FPGA experience needed. From there, customization and differentiation can be added via preferred design environments, at any level of abstraction—from application software to AI model to FPGA design.

With both hardware and software development requirements simplified, the KV260 Vision AI Starter Kit is the fastest and easiest platform for application development with the goal of volume deployment on Kria K26 SOMs.

OUT-OF-THE-BOX READY FOR APPLICATION DEVELOPMENT

- 1. Connect camera, cables, and monitor
- 2. Insert the programmed microSD card
- 3. Power-on the board
- 4. Load the accelerated application of your choice
- 5. Run the accelerated application





Vision Ready

- > Multi-Camera Support: Up to 8 interfaces
- > ON Semi IAS MIPI sensor interfaces
- > Raspberry Pi MIPI sensor interface
- > USB camera support
- > Dedicated ISP (ON Semi AP1302)
- > HDMI, DisplayPort Outputs

Flexible Connectivity

- > 1Gb Ethernet
- > USB 3.0 / 2.0

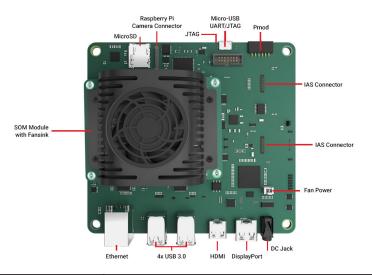
Expandable

- > Extend to any sensor or interface
- > Access Pmod ecosystem

Accessible

- > Low-cost, enabling design exploration
- > Available from AMD and distributors

SPECIFICATIONS



PARAMETER

KV260 Device Zyng[™] UltraScale+[™] MPSoC SOM + Carrier Card + Thermal Solution Form factor Starter kit dimensions 119mm x 140mm x 36mm Thermal cooling solution Active (Fan + Heatsink) 256K System logic cells Block RAM blocks 144 UltraRAM blocks 64 DSP slices 1.2K Ethernet interface One 10/100/1000 Mb/s 4GB (4 x 512Mb x 16-bit) [non-ECC] DDR memory Primary boot memory 512Mb QSPI Secondary boot memory SDHC card Zyng UltraScale+ MPSoC hardware root of trust (RoT) in support Device security of secure boot. Infineon TPM2.0 in support of measured boot. Image sensor processor OnSemi AP1302 13MP ISP IAS MIPI sensor interfaces x2 Raspberry Pi camera interface x1 Pmod 12-pin interface х1 USB3.0/2.0 interface x4 DisplayPort 1.2a х1 HDMI 1.4 х1

Power supply sold separately

TAKE THE NEXT STEP

For more information, documents, and reference designs, or to purchase, visit https://www.xilinx.com/products/som/kria/kv260-vision-starter-kit.html

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