

Versal™ AI Core Series VCK190 Evaluation Kit

OVERVIEW

Versal™ AI Core series VCK190 evaluation kit, equipped with the best AI performance-in-portfolio VC1902 device, is built for designs requiring high throughput AI inference and signal processing compute performance. Delivering 100X greater compute power than today's server-class CPUs, with various connectivity options and standardized development flows, the VCK190 is an ideal evaluation and prototyping platform for cloud, network, and edge applications.

HIGHLIGHTS

Evaluate Versal AI Core Series Capabilities

- > Equipped with Versal VC1902 production silicon
- > AI and DSP Engines providing 100X greater compute over today's server-class CPUs
- > Pre-built partner reference designs for rapid prototyping

Breadth of Connectivity Options for Rapid Development

- > PCIe® Gen4 interface for high compute performance markets
- > HDMI for video processing applications
- > SFP28/QSFP28/RJ-45 for networking applications
- > DDR4 and LPDDR4 memory interfaces
- > FMC expansion connectors supporting a variety of optional plug-in cards

Co-Optimized Tools and Debug Method

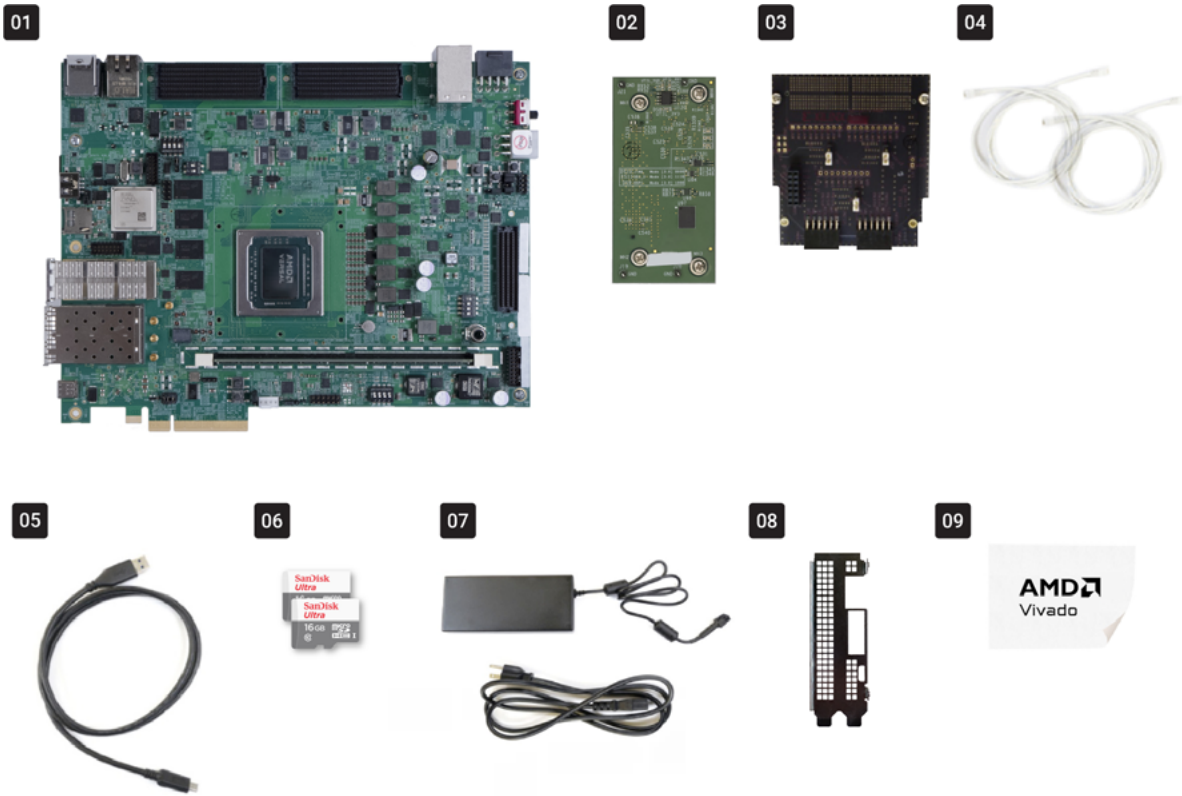
- > Fully supported by Vivado™ ML editions, Vitis™ unified software platform, and Vitis AI



TARGET APPLICATIONS

- > Data Center Compute
- > 5G Radio & Beamforming (DFE)
- > Cable-Access (Head-End)
- > Wireless Test Equipment
- > Automotive/ADAS prototyping
- > A&D Radar, Early Warning

KIT CONTENTS



01	VCK190 Evaluation Board	06	2 Micro SD Cards - System Controller SD Card – Pre-programmed - Versal SD Card – Blank
02	QSPI Boot Module	07	180W (12V) Power Supply
03	Pmod Module	08	PCIe® Bracket
04	2 Ethernet Cables	09	Vivado™ Design Suite
05	USB Type-C Cable		

TAKE THE NEXT STEP

To purchase or to learn more about the Versal AI Core series VCK190 evaluation kit, visit www.xilinx.com/vck190

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