

# 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

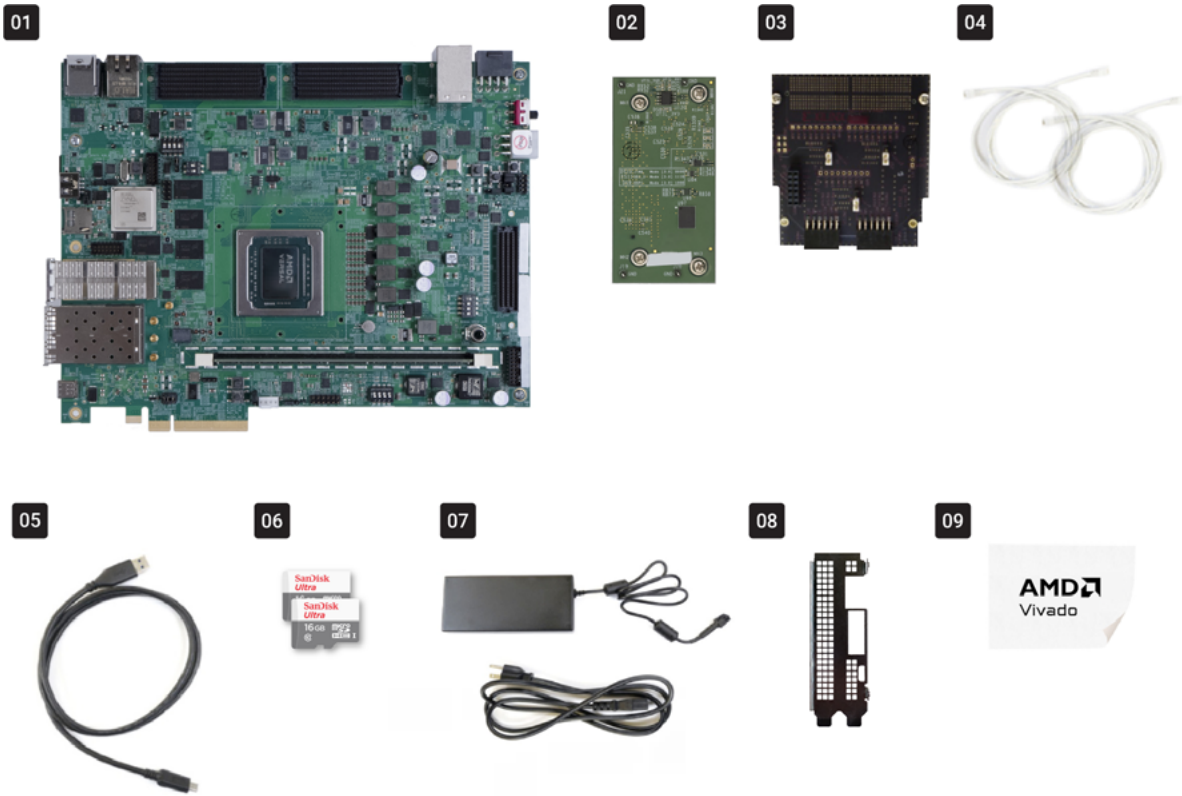
- > Fully supported by Vivado™ ML editions, Vitis™ unified software platform, and Vitis AI



## 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](http://www.xilinx.com/vck190)

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