OVERVIEW

The Versal™ Prime series VMK180 evaluation kit, equipped with the VM1802 ACAP, enables the fastest path to application design using the Versal architecture.

The VMK180 allows designers to jump-start their hardware/software differentiation with pre-built system infrastructure, enabled by a programmable network on chip (NoC) and integrated shell of optimized IP.

With high-performance compute engines, next-generation I/O, and standardized development flows, the VMK180 is an ideal evaluation kit for designing diverse workloads in a wide range of markets.

HIGHLIGHTS

Evaluate Versal Prime Series Capabilities

- Equipped with Versal ACAP VM1802 production silicon
- Accelerate hardware/software differentiation with pre-built system infrastructure including integrated shell and programmable NoC
- Pre-optimized 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™ Design Suite, Vitis™ unified software platform

TARGET APPLICATIONS

- Data Center Storage Acceleration
- SmartNIC
- 5G xHaul
- Nx100G Ethernet & OTN Networking
- Communication Test Equipment
KIT CONTENTS

01 VMK180 Evaluation Board
02 QSPI Boot Module
03 Pmod Module
04 2 Ethernet Cables
05 USB Type-C Cable
06 2 Micro SD Cards
07 180W (12V) Power Supply

TAKE THE NEXT STEP

To purchase or to learn more about the Versal Prime series VMK180 evaluation kit, visit www.xilinx.com/vmk180