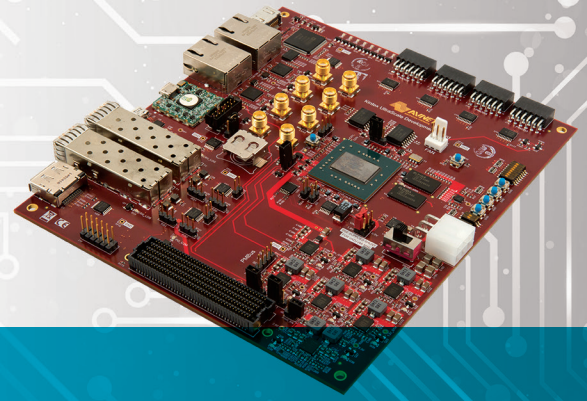


# Kintex UltraScale Development Kit



## Target Applications

- Embedded controllers
- General-purpose prototyping
- Networking and communications
- Storage and servers
- Video applications

## Kit Includes

### Hardware

- Avnet Kintex UltraScale Development Board
  - XCKU040-1FBVA676 Kintex UltraScale FPGA device
- Ethernet and USB A-mini-B Cables (2)
- 12V Power Supply (US/UK/Euro AC cords)

### Software Tools

- Xilinx Vivado: Design Edition (Device locked to XCKU040)

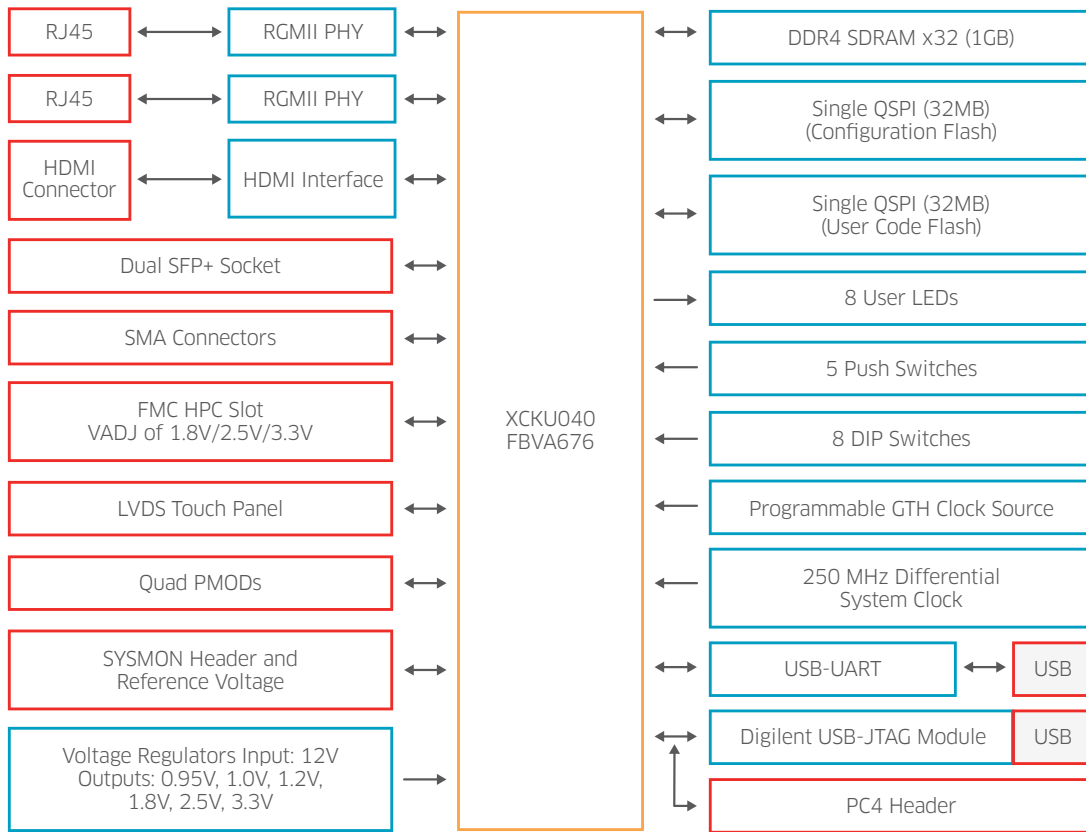
The Xilinx Kintex® UltraScale™ Development Kit provides a complete development platform for designing and verifying applications based on the Xilinx Kintex UltraScale All Programmable FPGA devices. The Xilinx Kintex UltraScale development board packages all the necessary functions needed for an embedded processing system.

Available with the Kintex UltraScale XCKU040-1FBVA676 device, the Kintex UltraScale kit enables designers to prototype high-performance designs with ease, while providing expandability and customization through the FMC HPC expansion slot and PMOD headers. In addition to the Xilinx Kintex UltraScale XCKU040 device, the Kintex UltraScale development board features 1GB DDR4 SDRAM, two SFP+ interfaces, dual QSPI Flash memories, HDMI interface, LVDS touch panel interface, two 10/100/1000 Ethernet PHYs, and a USB-UART port.

## Kintex UltraScale Development Board Features

- Xilinx XCKU040-1FBVA676 FPGA
- 1GB DDR4 SDRAM (x32 @ 1600Mbps)
- 32MB of Configuration QSPI Flash (single QSPI x4)
- 32MB of User Code/Data QSPI Flash (single QSPI x4)
- Two 10/100/1000 Ethernet Interfaces (RGMII)
- USB-UART Interface
- FMC HPC Slot (VADJ of 1.8V, 2.5V, or 3.3V)
- Two SFP+ Interfaces (up to 12.5Gbps)
- Two GTH SMA Interfaces (up to 12.5Gbps)
- LVDS Touch Panel Interface
- Four PMOD headers
- HDMI Interface
- 8 User LEDs
- 5 User Push Switches
- 8 User DIP Switches
- Programmable LVDS Clock Source (GTH reference clock)
- 250 MHz LVDS Oscillator (system clock)
- JTAG Header
- SYSMON Header
- Digilent USB-JTAG Module (JTAG-SMT2)

## Block Diagram



## Featured Manufacturers



## Parts

Part Number	Description	Resale
AES-KU040-DB-G	Kintex UltraScale Development Board	\$975

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