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# AMD Kintex™ UltraScale™ FPGA KCU105 Evaluation Kit

by: [AMD](#)



The Kintex™ UltraScale™ FPGA KCU105 Evaluation Kit is the perfect development environment for evaluating the cutting edge Kintex UltraScale FPGAs. The Kintex UltraScale family delivers ASIC-class system-level performance, clock management, and power management for next generation

systems at the right balance of price, performance and power. This kit is ideal for those prototyping for medium- to high-volume applications, such as Data Center, wireless infrastructure, and other DSP-intensive applications.

**Part Number:**

EK-U1-KCU105-G

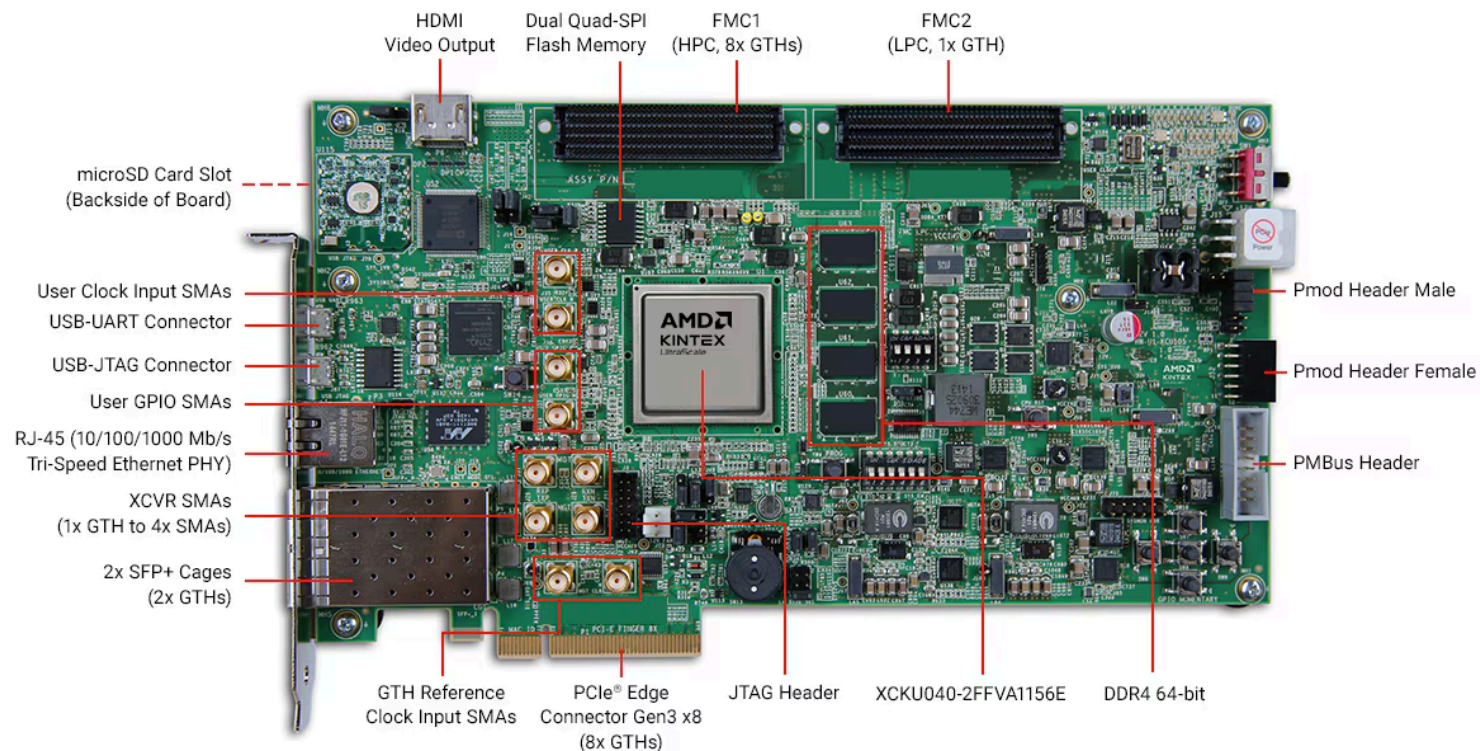
**Lead Time:** 8 Weeks**Device Support:** Kintex UltraScale[Add to Cart](#) 

## Product Information

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# Board Features

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**Communication & Networking**

**Clocking**

**Display**

**Expansion Connectors**



- Gigabit Ethernet GMII, RGMII and SGMII
- 2x SFP / SFP+ cage
- GTX port (TX, RX) with four SMA connectors
- UART To USB Bridge
- PCI Express x8 edge connector
- 8x programmable clocks
- System clocks, EMC clock, user clocks, Jitter attenuated clocks
- 2x SMA input clocks
- HDMI Video output
- External Phy/codec device driving an HDMI Connector
- 8x GPIO user LEDs
- FMC-HPC (Partial Population) connector (8 GTX Transceiver, 114 single-ended or 57 differential (34 LA & 24 HA) user defined signals)
- FMC-LPC connector (1 GTX Transceiver, 68 single-ended or 34 differential user defined signals)
- 2x PMOD headers
- IIC

## Configuration

- Onboard JTAG configuration circuitry to enable configuration over USB

## Memory

- 2GB DDR4 component memory (four [256 Mb x 16] devices) at

## Control & I/O

- 5X Directional Push Buttons
- 4X DIP Switches
- 1x Rotary switch
- Diff Pair I/O (1 SMA pair)

## Power

- 12V wall adapter or ATX



- JTAG header provided for use with AMD download cables such as the Platform Cable USB II
  - Quad SPI Flash with 2 x 256 Mb of non-volatile storage
- 1200MHz / 2400Mbpsps
  - 64MB (512Mb) Quad SPI Flash
  - 8Kb IIC EEPROM
  - Micro SD Card Slot

## Resources

Documentation

