Product Outline

An ideal tool for developing 8K and 4k video products

Featuring
- Xilinx® Kintex® UltraScale™ XCKU060-2FFVA1517

Memory
- 4 GB DDR4 SDRAM on board
- 2 controllers, 64-bit bus-width
- Maximum theoretical throughput: 215 Gbps

Interfaces
- 7 FMC interfaces (see FMC Slot Capabilities)
- 4 SFP+ interfaces
- UART over USB support
- JTAG 10-pin interface
- PMOD connector (12 position)
- Miscellaneous
  - 16 User Selectable Header Inputs
  - 16 general purpose DIP Switches
  - 8 general purpose push-button switches
  - 16 general purpose LEDs (8 red, 8 green)

Clocks
- 200MHz DDR4 Clock
- 148.5MHz image processing clock
- 156.25MHz SFP+ clock
- PLL for user customizable clocks

Configuration
- JTAG download or via onboard dual Quad SPI flash

Power
- External 12V DC power supply (included)
- Fan for FPGA cooling

Board Dimensions
- 280mm x 200mm (approx. 11” x 8”)

Features
- Xilinx® Kintex® UltraScale™ XCKU060-2FFVA1517
- 7 FMC Interfaces
- 4 GB DDR4 SDRAM
- Flexible clocking architecture
- Compatible with FMC Specification (VITA 57.1)*
- Proven operation with inrevium HDMI4K, 12G-SDI, DP1.2, V-by-One®, MIPI, and Zynq FMCs
- 4 SFP+ interfaces
- Targeted at, but not restricted to video developments
* Verify your target FMC with us prior to ordering
FMC Slot Capabilities

<table>
<thead>
<tr>
<th>GTH</th>
<th>STANDARD IO</th>
<th>FMC CARD EXAMPLE(S)</th>
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<tbody>
<tr>
<td>060</td>
<td>LPC BK A (PINS)</td>
<td>VADJ (V)</td>
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<tr>
<td>FMC6</td>
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Available References

Included IP
- DDR4 Memory Controller
- Chip2Chip Interface Block

Design Package (available under license)
- Schematics, PCB Layout, Artwork, Bill of Materials

FPGA Reference Designs
- Downloadable .bit file examples
- Licensable source
  (some blocks may be netlist encrypted)

Sales – Ordering Enquiries
For additional information, questions or request for quotation visit: www.fidus.com

Customize your TB-KU-060-ACDC8K
Speak with our Design Services Group on how to accelerate your custom design: design@fidus.com

About Fidus
Fidus Systems, founded in 2001, specializes in leading-edge electronic product development with offices in Ottawa and Waterloo Ontario, and San Jose, California. Our hardware, software, FPGA and signal integrity teams architect, design and deliver next-generation products for clients in emerging technology markets. We build long-term relationships by consistently exceeding expectations.

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