

Product Outline

Featuring

- Xilinx® Artix®-7 XC7A200T-2FFG1156C FPGA
- Two HPC FMCs connectors (located on bottom)

Memory

- 1GB DDR3 SDRAM SODIMM
- Maximum theoretical throughput: 51.2 Gbps

Interfaces

- 2 FMC HPC interfaces, featuring
 - 8 multi-gigabit transceiver connections per FMC
 - High-speed LVDS (FMC1: 58, FMC2: 46)
 - Independent VADJ setting to 1.5, 1.8, 2.5, or 3.3V
- UART over USB support
- JTAG over USB support or via onboard header
- 10/100/1000Base-T RJ45 (RGMII interface to FPGA)
- S/PDIF in/out support for digital audio
- Miscellaneous
 - 8 DIP Switches
 - 4 push-button tact switches
 - 4 green LEDs

Clocks

- SiLabs® SI5338B clock generator
 - 200MHz system clock
 - Additional configurable system clock
 - 2 configurable FMC MGTREFCLK's to FPGA
 - 2 MMCX clock inputs

Configuration

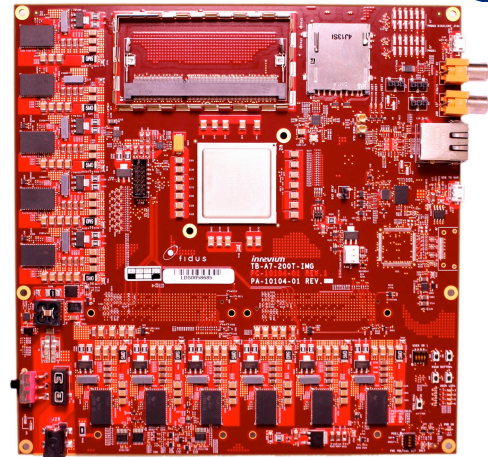
- JTAG download or via onboard Quad SPI FLASH

Power

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

Board Dimensions

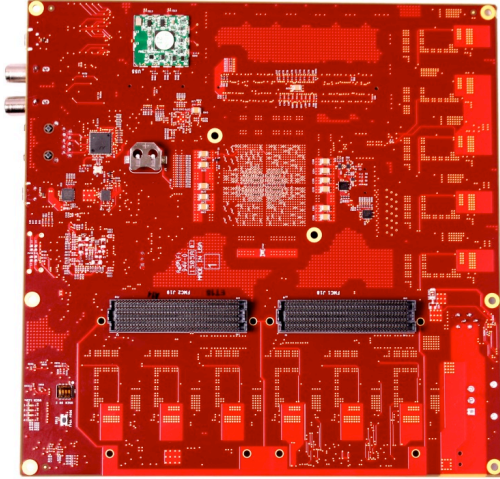
- 200mm x 200mm (approx. 8" x 8")



Features

- Xilinx® Artix®-7 XC7A200T-2FFG1156C FPGA
 - 2 FMC HPC interfaces, with 8 MGT connections per FMC
 - 1GB DDR3 SDRAM SODIMM
 - Flexible clocking architecture
 - Compatible with FMC Specification (VITA 57.1)
 - Designed for electrical compatibility with most FMC cards.*
 - Proven operation with inrevium DP1.2 and HDMI4K.
 - Compact size for easy, stylish packaging
 - Low cost development solution
- * Verify your target FMC with us prior to ordering

Bottom View



Available References

Design Package (available under license)

- Schematics, PCB Layout, Artwork, Bill of Materials

FPGA Reference Designs

- Downloadable .bit file examples
- Licensable source (some blocks netlist encrypted)

Sales and Support

For additional information, questions or request for quotation visit:
www.fidus.com

Customize your TB-A7-200T-IMG

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.

Ottawa Design Center and Headquarters

555 Legget Drive, Suite 800
Ottawa, ON K2K 2X3 Canada
+1 (613) 595-0507 x200

Kitchener-Waterloo Design Center

137 Glasgow Street, Suite 445
Kitchener, ON N2G 4X8 Canada
+1 (519) 576-0060

Silicon Valley Design Center

927 Corporate Way
Fremont, CA 94539-6118 USA
+1 (408) 217-1928 x0

fidus.com

