

3U VPX MODULE: BITFLEX-VPX3-MZQ1

The BitFlex-VPX3-MZQ1 is a high-performance FPGA processing module based on the Xilinx Zynq family of FPGAs. It provides multiple high-speed fabric interfaces, external memory, an FMC site, and high-density I/O. It is ideal for customizable, high-bandwidth, signal-processing and image-processing applications.



FPGA

- Xilinx UltraScale SoC FPGA ARM® dual-core Cortex™-A9 (32 bit, up to 1000 MHz)
- 1 GB of DDR3 SDRAM
- 512 MB NAND flash
- 64 MB quad SPI flash

VPX (VITA 46) P1 I/O

- PCI Express Gen3 4x Lanes
- 8x RX/TX GTH-capable High-Speed Serial (HSS) lanes

VPX (VITA 46) P2 I/O

- 1G Ethernet Interface
- RS232
- Twelve LVDS

DEVELOPMENT SUPPORT

- Linux drivers

FIRMWARE SUPPORT

- VHDL cores for all hardware resources
- Base design

PHYSICAL CHARACTERISTICS

- 3U VPX-REDI air-cooled form factor
- Dimensions: 100 mm x 160 mm
- 0.85 in. and 1.0 in. pitch with solder-side cover