Table 4 – KINTEX 7 FPGA BASED VME FORM FACTOR DIGITAL IO CARD
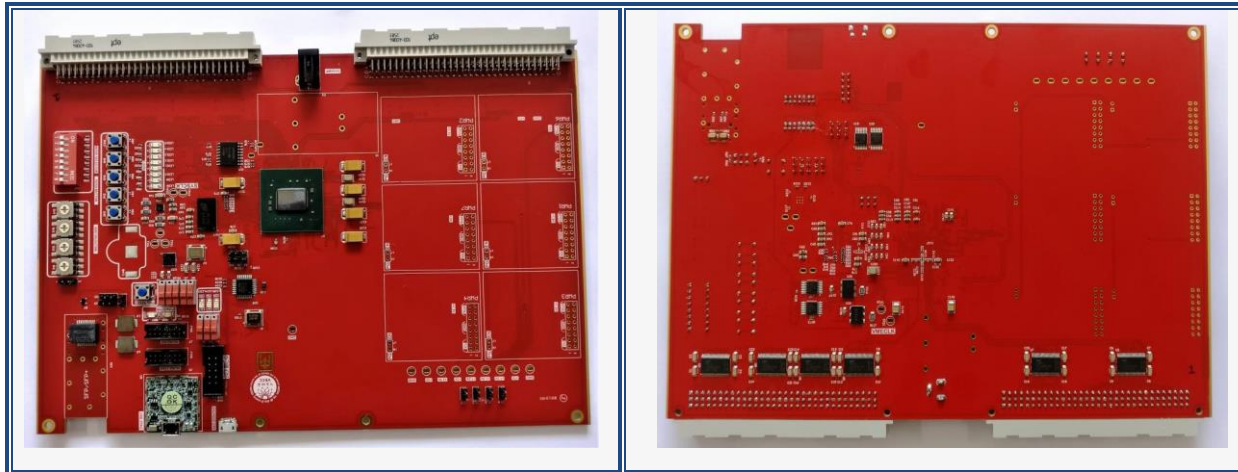

This board is a Kintex 7 FPGA based 3 Row vertical VME Digital IO Card :-

FPGA

- **Kintex 7 FPGA with 1,60,000 logic cells, 600 DSP slices, 8 Gigabit Transceivers**
- **JTAG Mode and Active Serial Mode – Using serial configuration device PROM for FPGA**

DDR3L

- **2 Gb DDR3L SDRAM memory for computation and data buffering.**

VME interface vertical Euro Card 3 – Row.

Clock generation & distribution:-

- **On board LVDS / CMOS oscillator 200 MHz**
- **Extremely low RMS jitter 1 to 220MHz Si LAB LVPECL / LVDS Oscilator.**

USB interface:-

- **Micro USB B Type interface for communication.**

SFP+ optical Module interface:-

- **Electrical to Optical Giga Bit Ethernet interface using SFP+ Module**

Other interfaces or features:-

- **USB type programming interface**
- **DC to DC isolated converters**
- **On PCB : 4 DIP switches, LEDs for other important signals on PCBs, LED for Configuration Done**