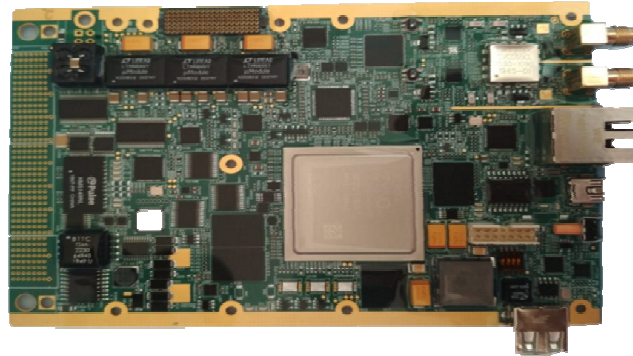




## 3U VPX FPGA BOARD - ICS-3U01FDV

### DESCRIPTION:

ICS-3U01FDV- is Zynq® UltraScale+™ MPSoC FPGA board that fits on to standard 3U VPX motherboard and has Single Board Computer architecture with high end processors and onboard 4 Gsps, 16 bit ADCs. Zynq UltraScale+ MPSoCs features dual and quad core variants of the Arm Cortex-A53 (APU) with dual-core Arm Cortex-R5F (RPU) processing system (PS) . ICS-3U01FDV is provided with ARINC-429 interface and MIL-1553 interface. Additionally it has standard interfaces viz., Ethernet Interface, PCI interface, DDR4 on board memory and SD Card. It supports Operating system of Peta Linux or Bare Metal OS for Xilinx



### FEATURES:

- Zynq Ultra scale+ Mpsoc FPGA
- VPX Interface form factor
- High speed ADC of 4 Gsps
- JESD204B Standard
- ARINC-429 Interface
- MIL-1553 Interface
- ETHERNET Interface 10/100/1000
- PCI Interface 4-lane
- DDR4 on-board Memory
- SD Card Interfaces
- eMMC NAND

### SPECIFICATIONS:

- Processor : Zynq Ultra scale+ Mpsoc FPGA
- RAM Memory : 4GByte DDR3/4
- Flash : 128Mbyte Quad-SPI  
: 16GB iNAND
- A to D Converter : 16-bit ADC's ,4GSPS
- Ethernet Port : x2 Giga Ethernet Back plane VPX  
: x1 Giga Ethernet with RJ45
- Temperature sensor : I2C temperature sensor
- Watchdog timer : Time out of 10 sec
- Operating system : Peta Linux or Bare Metal OS for Xilinx
- MIL 1553B Interface : 2 Channels (01 + 01 redundant)
- ARINC 429 Interface : 4 Channels (4 TX, 4 RX)
- Operating temperature : -40°C to +125°C
- Storage temperature : -55°C to +125°C
- Power supply : +9V to + 32 from VPX
- Form Factor (Size) : 3U VPX Customized
- Cooling : Conduction Cooled

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