

MODEM CARD - ICS-3UV-MDMC01

DESCRIPTION:

The MODEM card is developed around Zynq Ultra Scale FPGA. The signal processor is designed on Single Board Computer architecture with high end processors and onboard ADC, DAC and high-end FPGAs. The signal processor of transponder shall be configured with feature of DPSK and MSK demodulation in addition to the conventional pulse amplitude demodulation. It has 4 lane PCI interface along with ARINC-429 and MIL-1553 interface



FEATURES:

- Zynq Ultra scale+ Mpsoc FPGA
- VPX Interface form factor
- High speed ADC Interface
- JESD204B Std
- ARINC-429 Interface
- MIL-1553 Interface
- ETHERNET Interface 10/100/1000
- PCI Interface 4-lane
- DDR4 Memory Interface
- SD Card Interfaces
- eMMC NAND
- LNA, Switches, Filters and Digital Step Attenuators

SPECIFICATIONS:

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|-----------------------|---|-------------------------------|------------------------|
| • Processor | : Zynq Ultra scale+ Mpsoc FPGA | • Analog to Digital Converter | : 16-bit ADC's ,4GSPS |
| • RAM Memory | : 4GByte DDR3/4 | • Operating temperature | : -40°C to +125°C |
| • Flash | : 128Mbyte Quad-SPI and 16GB iNAND | • Storage temperature | : -55°C to +125°C |
| • Ethernet Port | : x2 Giga Ethernet Back plane VPX
x1 Giga Ethernet with RJ45 | • Power supply | : +9V to + 32 from VPX |
| • Temperature sensor | :I2C temperature sensor | • Form Factor (Size) | : 3U VPX Customized |
| • Watchdog timer | : Time out of 10 sec | • Cooling | : Conduction Cooled |
| • 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) | | |

APPLICATIONS: Secondary Surveillance RADAR

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