

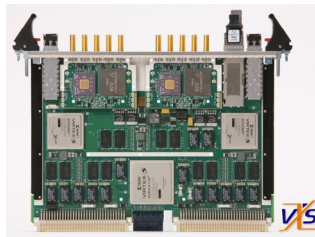
## QuiXilica VXS FPGA-Based Solutions for Sensor I/O Processing

The QuiXilica VXS family of digitizers are flexible analog and digital VITA 41.0 VXS I/O products. High performance analog and digital I/O front ends are combined with a scalable Xilinx Virtex-5 FPGA based processing architecture. Memory and inter-processor communication resources are optimized for very high performance real time DSP applications. QuiXilica includes development kits, FPGA cores and software, giving users power and flexibility while retaining consistency and ease of use. All QuiXilica-V5 products are available as convection or conduction cooled.

### QUIXILICA V5 PRODUCTS

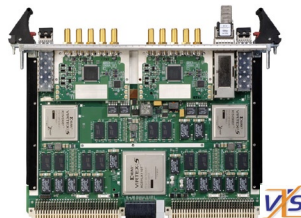
#### Neptune-V5 VXS

- 2 channel 10-bit 2.2 Gbps ADC
- 6 front panel high speed serial ports at 3.75 Gb/s each
- 1 GB DDR3 Memory/FPGA (3X)
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links
- Advanced Temperature and Current Monitoring
- QuiXstart FPGA Configuration System
- VME/VXS form factor, VITA 41.0 Compliant



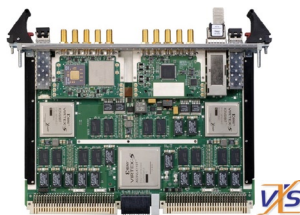
#### Orion-V5 VXS

- Dual Channel 12-bit 3.0 Gbps DAC
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links



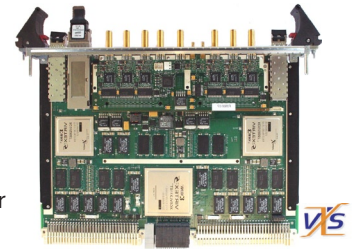
#### Triton-V5 VXS

- Dual Channel, 3.0 Gbps ADC and DAC Digitizer
- 1x 10 bit 2.5 Gbps ADC/DMUX
- 1x 12 bit 3.0 Gbps MUX/DAC
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links



#### Tarvos-V5 VXS

- 6x 16-bit 185 Msps ADC channels based on LTC2209
- One 16-bit 185 Msps DAC channel based on MAX5891
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links



#### Titan-V5 VXS

- 3x 16-bit 600 Msps DAC
- 3x 12-bit 500 Msps ADC
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links

#### Janus-V5 VXS

- 7x 16-bit 500 Msps DAC channels, based on MAX5891
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links

#### Atlas-V5 VXS

- 6x 12-bit 500 Msps ADC
- 1 GB or 2 GB DDR3 Memory per FPGA (3X)
- 1x Front Panel QSFP slot for 4x 3.75 Gb/s<sup>MAX</sup>
- 2x Front Panel SFP+ slots for 3.75 Gb/s<sup>MAX</sup>
- Dual 4x Full Duplex VXS Links
- 2x Full Duplex Vita 41.6 Ethernet Links



## QUIXILICA V2 PRODUCTS



### Callisto VXS

- Five VC2VP50 FPGAs provide high bandwidth communications links
- High performance FPGA Based Communications management and processing platform
- Fits in Switch card position in VXS backplane
- High Performance FPGA Based Communications Management and Processing Platform



### Triton VXS

- Dual Channel, 2 Gbps ADC and DAC Combo Digitizer
- 1x 10-bit 2 Gbps Atmel ADC/DMUX
- 1x 12-bit 2 Gbps Euvis MUX/DAC
- 2x Front Panel SFP Slots for 2.5 Gb/s Fiber or Copper Transceivers
- 2x DDR SDRAM SODIMM Slots, Up to 2 GB Each
- Large FPGA Processing Engine



### Neptune VXS

- Dual Channel 2 Gbps ADC Digitizer
- 2x 10-bit 2 Gbps Atmel ADC/DMUX
- 2x Front Panel SFP Slots for 2.5 Gb/s Fiber/Copper Transceivers
- 2x DDR SDRAM SODIMM Slots, Up to 2 GB Each
- Large FPGA Processing Engine



### Tarvos VXS

- 6x 16-bit 160 Msps ADC channels based on LTC2209
- One 16-bit 500 Msps DAC channel based on MAX5891
- 2x front-panel SFP slots for 2.5 Gb/s fiber or copper transceivers
- 2x on-board DDR SDRAM banks 512 MB/bank
- 2x DDR SDRAM SODIMM slots, up to 2 GB each
- Large FPGA Processing Engine



### Janus VXS

- 7 x 16-bit 500 Msps DAC channels, based on MAX5891
- 2 x front-panel SFP slots for 2.5 Gb/s fiber or copper transceivers
- 2 x on-board DDR SDRAM banks, 512 MB per bank
- 2 x DDR SDRAM SODIMM slots, up to 2 GB each
- Large FPGA Processing Engine



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