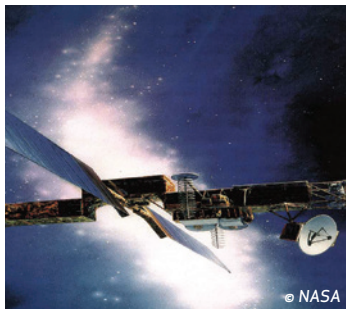
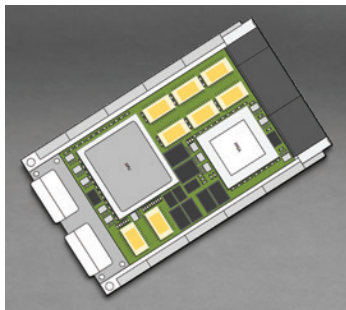


# RADIATION TOLERANT, 75GFLOP 3U SpaceVPX GPU SINGLE BOARD COMPUTER



Moog introduces the first payload processor GPU based single board computer that offers radiation tolerance by design. This product offers the low power x86 compatible AMD G-series or V-series SOC GPU and is paired with the Xilinx Ultrascale KU060 FPGA.

The architecture provides I/O interfaces needed for imaging, software defined radio and synthetic aperture radar processing in addition to command and data handling, including: Gigabit Ethernet, PCIe, SerDes, LVDS, SRIO, serial ports, GPIO, I2C and SPI.

The VITA78 (SpaceVPX) compliant backplane interface offers multilane SRIO for the data plane, Spacewire for the control plane and GPIO/SPI for the utility plane.

Moog has invested significantly in components, architectures, and automated manufacturing to provide state of the art, radiation tolerant data processing for the space market. Components selected for this product are specifically sourced for their radiation capability the screened and tested for radiation resiliency from single lot data code procurements.

## GPU SBC PERFORMANCE COMPARISON

	G-Series, Steppe Eagle	V-Series, Ryzen
GLFOPS	75	1000
Clock	1.2 GHz	2 GHz
DDR Memory	2 GB (DDR3)	4 GB (DDR4)
FLASH Memory	64 GB	64 GB
Power	20 W (typ)	33W (typ)
FPGA	Xilinx KU060 Ultrascale	Xilinx KU060 Ultrascale
Backplane	VITA78 (SPaceVPX)	VITA78 (SPaceVPX)
Size	3U	3U

# RADIATION TOLERANT, 75GFLOP 3U SpaceVPX GPU SINGLE BOARD COMPUTER

## APPLICATIONS

- Image Processing
- Hyperspectral Processing
- Software Defined Radio Signal Processing
- Synthetic Aperture Radar Processing
- Artificial Intelligence
- Machine Learning

## AVAILABILITY

- Accepting Orders for Flight Units



For More Information:  
Phil Tokeshi

2228 W Guadalupe Rd, Gilbert AZ 85233  
(602) 572-2623 • ptokeshi@moog.com • www.moog.com



MoogSpace and Defense



@MoogSDG



@MoogSDG



@MoogSDG



@MoogInc

Equipment described herein falls under the jurisdiction of the EAR and may require US Government Authorization for export purposes. Diversion contrary to US law is prohibited.

© 2020 Moog, Inc. All rights reserved.  
Product and company names listed are trademarks or trade names of their respective companies.