ON–BOARD PROCESSING AND DIGITAL RF TRANSCEIVER DEVELOPMENT KITS

A Trident development platform with lab-standard interfaces utilizing flight-like hardware. Pre-loaded with Trident Firmware and Software for application development and testing. On-site and remote support available with each kit.

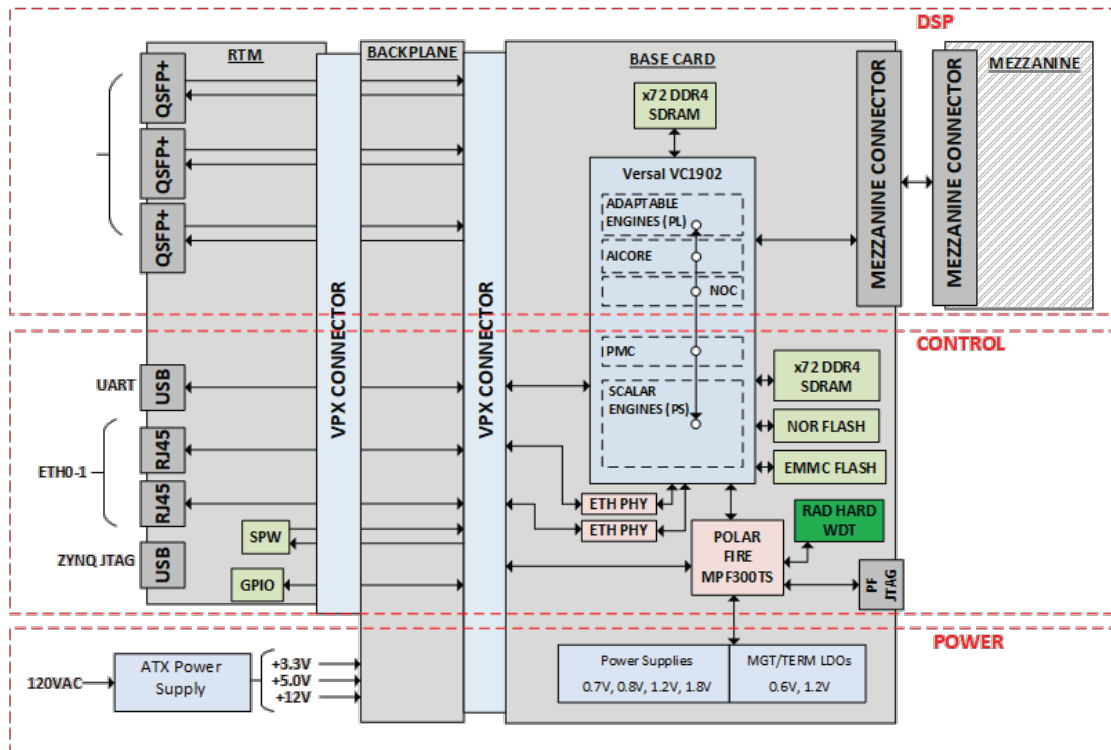## Customizable Development Kits

Trident VDRT Development Kits are lab-based development platforms, preloaded with Trident FW/SW (source files included), for application development, testing, and HWIL demonstrations on Trident Hardware. Compatible with Tridents 3U VPX modules, the kits provide operational and developmental interfaces to flight-like hardware with "lab-friendly" interfaces. These kits are a low-cost, rapidly available platform for new and existing customers. Customization available.

Lab Development on Trident Flight-Like Hardware

Rapid Response Methodology

Development Kits are an integral part of Trident's Rapid Response methodology which enable our customers success on fast-paced, cost constrained, modern space programs. Demonstrated on multiple flight programs, contact us to learn how we can apply this methodology to your programs.
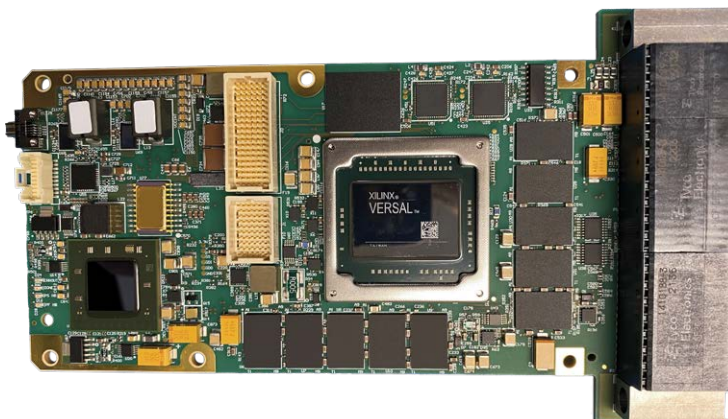
TRIDENT
SPACE ELECTRONIC SYSTEMS
A LIGHTRIDGE SOLUTIONS COMPANY

www.tridsys.com
703-273-1012

10201 Fairfax Blvd, Suite 300
Fairfax, VA 22030

SPN-06355 VDRT DevKit Specifications

— Integrated VDRT EDU with XCVC1902-1MSIVIVA1596
   with flight and developmental interfaces
   - Two (independent) 8GB DDR4 Memory Banks w/ ECC
   - 32 GB (minimum) NAND Flash, 256MB Redundant
     NOR Flash
   - Two PS Ethernet (RJ45)
   - Three Versal GTY Quad (QSFP+)
   - Two (2) Versal UART connections (USB)
   - Versal JTAG (USB)
   - 1 Pulse Per Second (SMA)
   - Discrete boot and power control
   - 1 TB SSD on mezzanine site optional

Included Source Files and Docs

— Trident Yocto Layer BSP
— Example Vivado Project
     • NOC configuration (DRAM / Interconnect)
     • AICore Demo
     • Processor configuration
— Pin constraints for the entire chip (XDC)
— Engineering GUI and C2 GUI for Flight SW
— HW User Manual and Documentation

SWaP

— Benchtop or 19" rack-mountable (3U height)
— 120 VAC (Integrated Power Supply)
— ~8 kg, shipped in protective storage container

Rapid Availability

— From stock to 14-16 weeks
— On-site and remote support available
— Kit Customization is available for
   additional interfaces and other mezzanine cards

Contact Us: SES-BD@tridsys.com

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