

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.



Lab Development on
Trident Flight-Like
Hardware

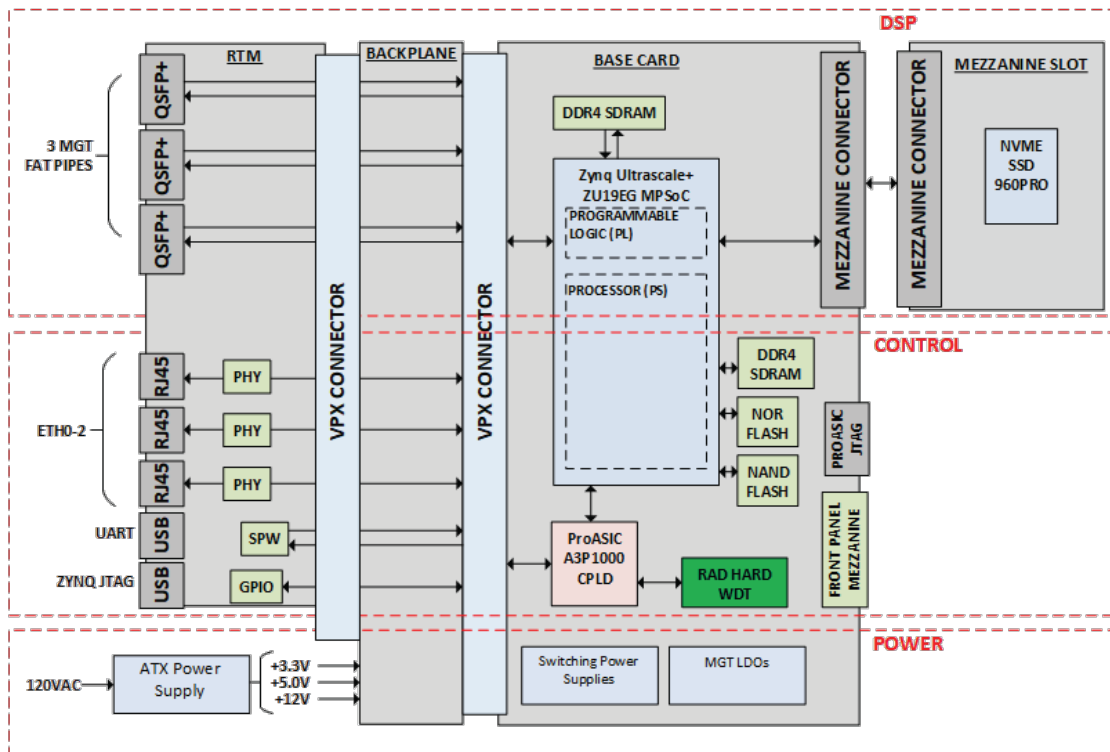
Customizable Development Kits

Trident UDRT 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.

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.

SPN-05007 UDRT DEV KIT SPECIFICATIONS



SPN-05007 UDRT DevKit Specifications

- Integrated UDRT EDU with XQZU19EG-1FFRC1760M in LVAUX mode with flight and developmental interfaces
 - 4 GB PL and 4 GB PS DDR4 Memory
 - 1 GB NAND Flash, 128 MB Redundant NOR Flash
 - Two Zynq-PS Ethernet (RJ45)
 - Zynq GTY Quad (QSFP+)
 - Two (2) Zynq UART connections (USB)
 - Zynq/ProASIC JTAG (USB, integrated Pod)
 - 1 Pulse Per Second (SMA)
 - Discrete boot and power control
 - Includes 1 TB SSD on mezzanine site



Included Source Files and Docs

- Trident Yocto Layer BSP
- Zynq processor configurations (TCL)
- Zynq Programmable Logic SDRAM setup (XCI)
- MGT setup constrained by REF CLKs (XCI)
- Pin constraints for the entire chip (XDC)
- Example Project/Bitstreams
- Engineering GUI and C2 GUI for Flight SW
- Library and 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 included
- Kit Customization is available for interfaces and other mezzanine cards

Contact Us: ES-BD@tridsys.com