RDRT DEV KIT

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.
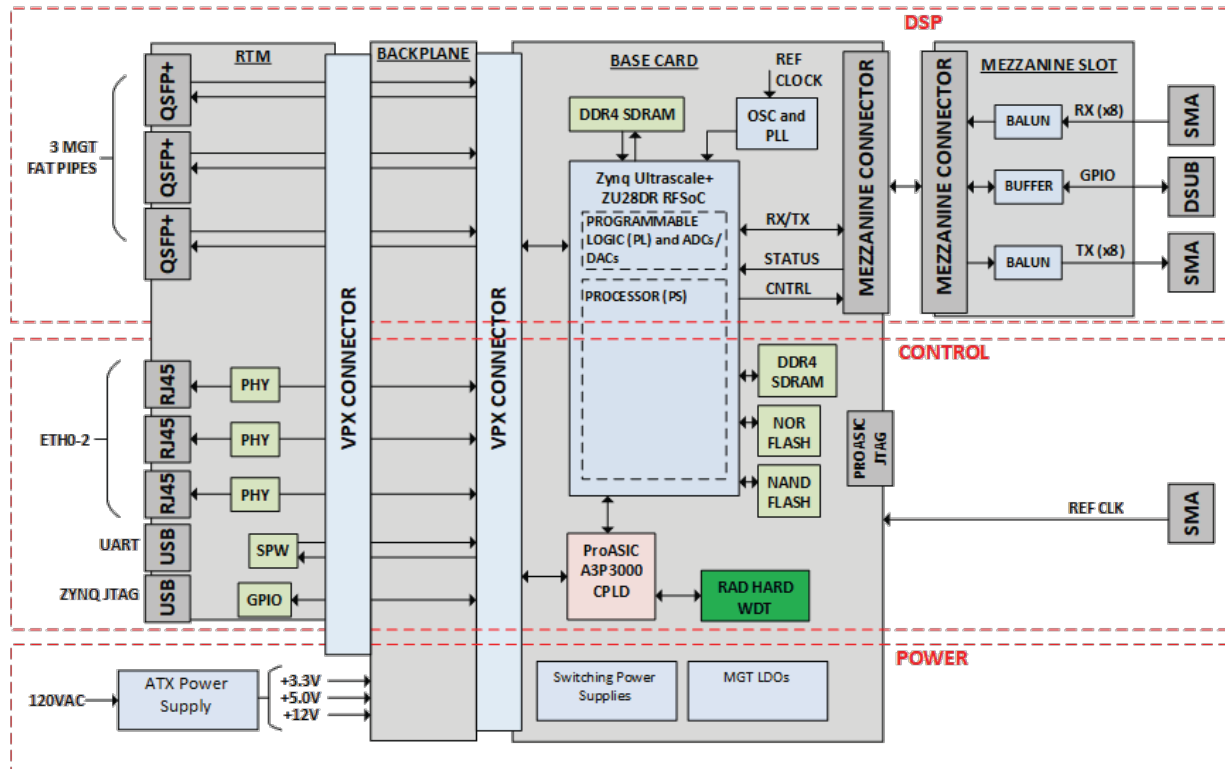
Lab Development on Flight-Like Hardware

Customizable Development Kits

Trident RDRT 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 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
LIGHTRIDGE SOLUTIONS

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SPN-05040 RDRT DEV KIT SPECIFICATIONS

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
— Compatible with Xilinx "RF Analzyer" Tool

SPN-05040 RDRT DevKit Specifications

— Integrated RDRT EDU with XQZU28DR-1FFRG1517M in LVAUX mode with flight and developmental interfaces
  - 8 TX and 8 RX Channels (50 ohm, SMA)
  - 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
  - Programmable GPIO (routed on mezzanine)

SWaP

— Benchtop or 19" rack-mountable (3U height)
— 120 VAC (Integrated Power Supply)
— ~9 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