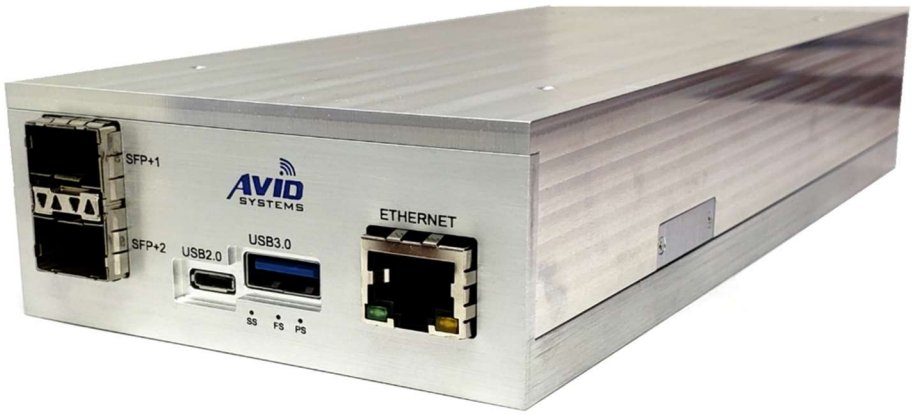
AVS-4010

RADIOAWARE10G
Unattended Wireless Transceiver

Applications:

- RF Record and Playback
- Direction Finding
- Spectrum Monitoring
- Quick Reaction Communications
- Mobile Satellite Terminal
- DSSS and FHSS



Description:

RADIOAWARE10G packs the latest wideband RF transceiver and digital processing technologies into a small portable formfactor. The RADIOAWARE10G provides 2-channel coherent receive and transmit capability from 2MHz to 6GHz with 200MHz of bandwidth per channel. In addition to the impressive RF capability, this unit is built around the Zynq UltraScale+ technology with up to 4TB storage. This combination of processing power, efficiency, storage and flexibility makes the RADIOAWARE10G the ideal platform to process signals onboard for unattended remote applications while also providing highspeed interfaces for large enterprise deployments. The ability to synchronize multiple units using GPS and IEEE 1588 makes this unit a great choice for large spectrum monitoring, mesh networking, and direction-finding applications.

Features:

- 2-Channel RF Transceiver (4-Channel Variant Available)
- RF Tuning Range 2MHz to 6 GHZ
- RF Bandwidths up to 200MHz
- Phase Coherent or Independent Tuning
- Integrated GPS or Ext Time/Freq Reference
- IEEE-1588 and PTP for Synchronization
- 1000BaseT Ethernet or USB Control
- 2X 10Gb Ethernet and USB 3.0 Connectivity
- GPIO for System Integration
- Quad A53 64-bit Zynq UltraScale+ SOC
- 4GB X64 DDR4 Memory (Processor)
- 2GB X32 DDR4 Memory (Logic)
- 64GB eMMC
- Up to 4TB of M.2 Storage
- Open FDK and SDK/BSP Provided
- GNU Radio Support
- REDHAWK Support
- Security Supervisor
- Supports Xilinx AI Development

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AVID SYSTEMS
Signal Processing & Communications Systems

AVS-4010

RADIOAWARE10G
Unattended Wireless Transceiver

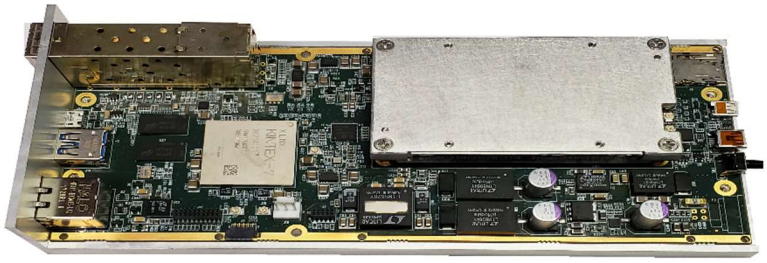
AVID SYSTEMS
Signal Processing & Communications Systems

Power By:

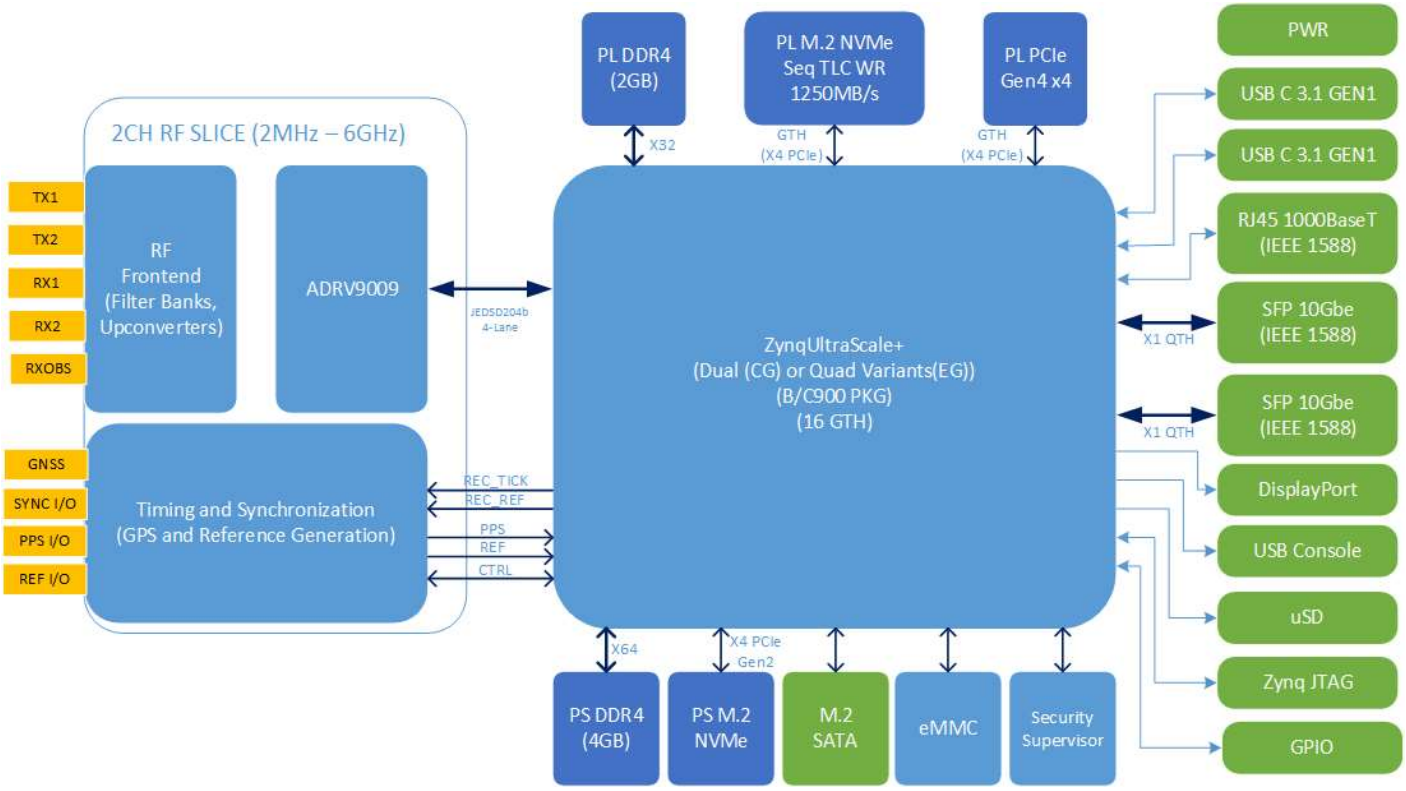
ubuntu

XILINX
ALL PROGRAMMABLE

RadioVerse



Block Diagram



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