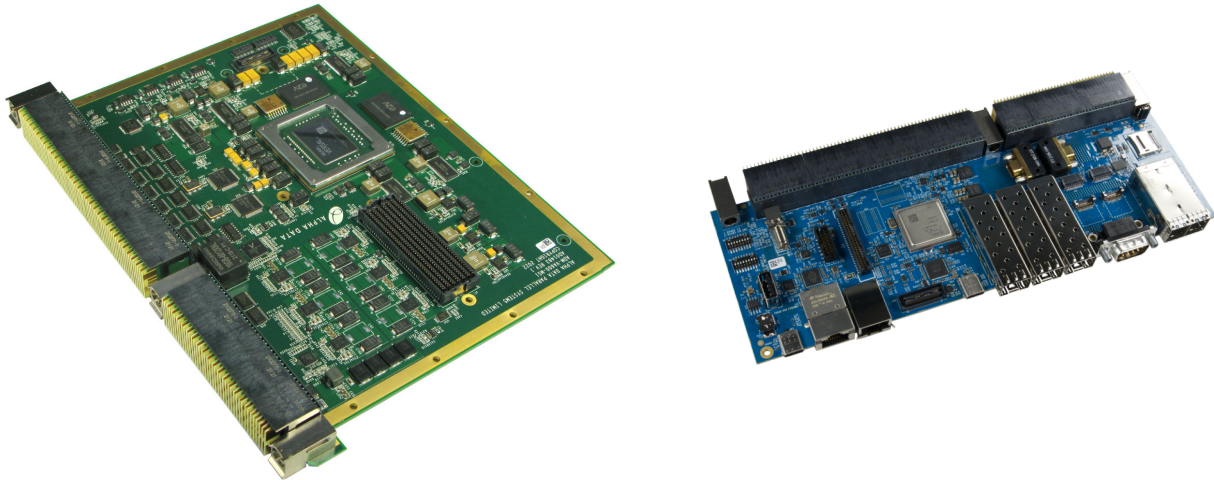


Application

Off-the-Shelf Development Platform for Space 2.0

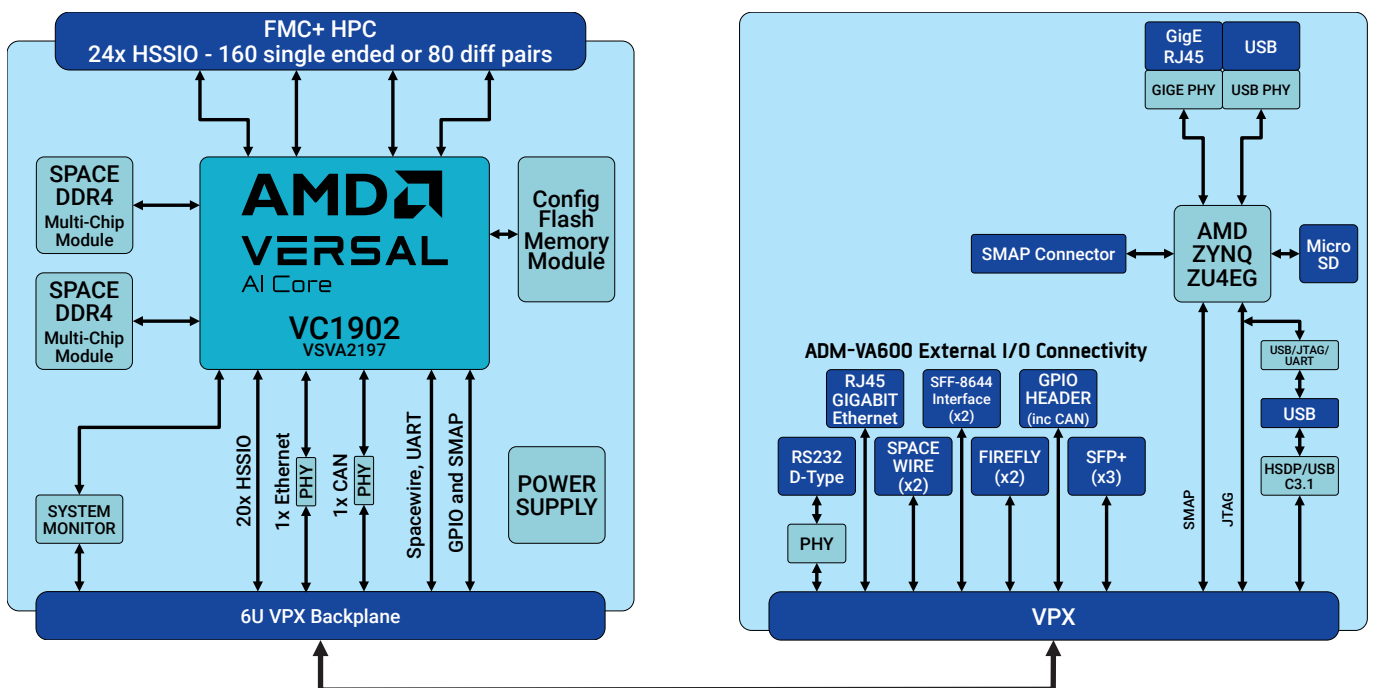
Summary

The ADM-VA601 is a 6U Space VPX reference platform for the AMD Versal AI Core XQRVC1902 Adaptable SoC platform for Space 2.0.



AMD Versal AI Core provides a massive leap forward in reconfigurable and customizable processing performance for Space mission deployment of compute intensive applications such as Signal Processing and Machine Learning. The development platform is designed to accept components suitable for Space 2.0 level missions with limited radiation environment or mission length, such as LEO applications. The standard manufacturing build of this platform is however intended for laboratory prototyping use only with commercial footprint compatible parts and unqualified space parts fitted in most cases. The primary customers will be using this version for design proving and other prototype level testing.

The kit features a reference Space Grade power supply co-designed with Texas Instruments, along with many other Space Enhanced Plastic devices covering clocking and system monitoring functionality. The kit also features Space Grade DDR4 Memory modules from Teledyne-e2v and QSPI configuration flash from Infineon Technologies.



ADM-VA601 Features

- AMD XCVC1902 AI Core Adaptable SoC
- Texas Instruments power supplies, system monitoring and programmable clocking devices
- 2x Teledyne e2v Space DDR4
- 1Gb Infineon Flash Memory
- VITA 57.4 FMC+ site for advanced IO and Data Converter module connectivity

ADM-VA600-RTM Features

- Rear-Transition Module for breakout of VPX backplane signals for development.
- Onboard Zynq ZU4EG MPSoC for debugging and development configuration control
- Gigabit Ethernet Connectivity
- USB Connectivity
- Serial Connectivity

Kit Deliverables

- ADM-VA601 Adaptable System on Module
- ADM-SDEV-FL1 Infineon Configuration Flash Daughter Module
- ADM-VA600-RTM Rear Transition I/O Module
- RD-VA601 reference designs and board schematics
- One Year Warranty
- One Year Technical Support

Ordering Information
The ADK-VA601 is made up of the following products
<p>ADM-VA601 /DEV - 6U Space VPX platform for the AMD Versal AI Core XQRVC1902 Adaptable SoC Platform for Space 2.0</p> <p>ADM-VA600-RTM - 6U VPX Rear Transition Module</p> <p>ADM-SDEV-FL1 - Flash Memory Module</p> <p>RD-VA600 - ADK-VA601 Reference Designs</p>
Please contact the factory for other options