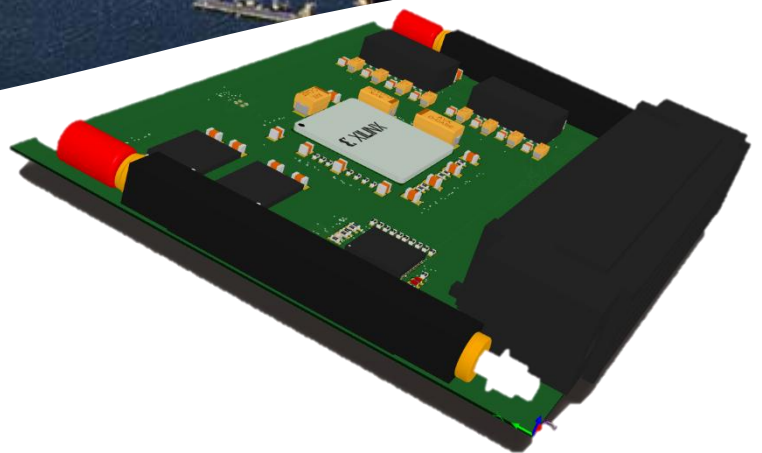


MIL-AERONano – ELECTRONIC PAYLOAD MODULE (EPM)

SMALL PROCESSOR MODULE – SPM100

SPM100 FEATURES

- Artix 100T FPGA - 100K logic - 240 DSP
- 256MB DDR3 ECC
- <15W power consumption
- 802.11 1000BASE-T Ethernet
- 2 x RS422 | RS485
- PCIe Gen II x4 backplane data-bus
- 64bit configurable GPIO
- On-board configuration memory
- On-board system controller
- USB test and configuration interface
- 19mm footprint
- OpenVPX Standard Interface



The **MIL-AERONano-SPM100** module is designed to be incorporated within any of the ELEK-TECH ELECTRONIC SYSTEMS LTD AMS systems. The main processor is based on the Xilinx Artix range of SRAM based FPGA's, and as such the product is targeted at high-reliability, low-power control applications.

The module is configured with 64 bits of general purpose IO (GPIO) which can be fully configured to application requirements. However, further expansion options are provided utilising the on-board PCIe Root Hub. The root hub allows further expansion of the AMS functionality with the addition of up to four other I/O and network cards all OpenVPX interface compatible.

System Controller

The system controller is responsible for the power control and monitoring of all modules fitted within an AMS chassis. Diagnostic information and fault history is logged within the system controller and can be accessed via the AMS Intelligent Diagnostics Platform Interface (IDPI) enabling rapid diagnostic information to be captured in the field.

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