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The Titan-V5e is an advanced SBC that combines a PowerPC general-purpose processor and Xilinx Virtex-5 FPGA in an ultra-small credit card-size form factor. iVeia's System-on-Chip (SoC) technology and tools provide an easy-to-use deployable platform for high-performance signal and image processing applications.

"The low power and small size of the Titan-V5e enables our customers to push their critical processing out to the edge, something they couldn't do before with typical COTS hardware," says iVeia CTO Michael Fawcett. "Our flexible architecture allows us to provide a number of COTS and quick-turn I/O solutions for a variety of markets, including unmanned vehicles, robotics, portable and handheld applications, wireless communications, and machine vision."

The Titan system is modular and scalable with a variety of different processor, I/O, backplane, and enclosure options to suit your specific commercial and ruggedized processing needs.

– iVeia

Small module eats images for lunch

In our never-ending search for small form factor modules, we turned up iVeia's Titan-V5e processing module. Based on a Xilinx Virtex-5, this platform combines general-purpose signal and video processing in a tiny 2.125" (W) x 3.375" (L) x 0.25" (H) package. It runs Linux 2.6 to manage the Virtex-5's PowerPC 440 CPU and the DSP48E slice along with additional programmable logic in the FPGA.

The Titan-V5e development kit includes the hardware, a Velocity-SoC IP core and SDK, and an optimized framework and abstraction layer that decouples the FPGA and software design to aid in development. Additional GigaFlex I/O modules complete the package.

Model: Titan-V5e

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