



Keith & Koep  
GmbH



**May 10, 2010:**

### **Keith & Koep's Trizeps VI - Marvell PXA168**

Keith & Koep announces the sales start of Trizeps VI, the newest member of their system on modules family with SODIMM 200 standard. The Trizeps VI module is based on a PXA168 CPU, Marvell's latest ARMADA 100 series with up to 1.1 GHz. The Marvell® Sheeva™ CPU Core PXA168 is ARM® Architecture v.5TE compliant and application code compatible with Intel®/Marvell® XScale-based Trizeps modules. In this sense the Trizeps VI modules fits into designs made for Trizeps III, IV and V. The core supports ARM and Thumb instructions, as well as hardware acceleration of Intel® wireless MMX®2 v1.5 technology, enabling high performance, low-power multimedia acceleration with a general-purpose instruction set. Trizeps VI includes an audio codec function as well as a touch-screen controller and power management interfaces. The incorporated A/D converter and the touch screen interface provide the complete control and read-out of a resistive touch screen. Audio is covered by a 20 bit stereo headphone-out (low-noise design, programmable sampling rates), stereo-in and a separated micro-in (mono).

Further features of Trizeps VI are a high-speed USB Host interface, an onboard Bluetooth module and the possibility to use Ethernet (100/10 MBit) and WLAN (802.11b/g) at the same time. The Module decodes 128 MB or 256 MB DDR2-RAM, 256 MB or 512 MB NAND-Flash and a micro SD card socket. Displays are supported up to 1920 x 1200 pixel.

The following interfaces are available:

3 serial interfaces (UART), 2 x SD/MMC/SDIO card interface (4Bit wide), 4-in-1 card reader (xD-memory, MMC, SD, Memory Stick), Compact Flash card interface, camera Interface, SPI, I2C, PWM, CPLD (128 or 256 macro cells), 4-wire resistive touch interface.

For the current supply only 3.3V is needed. With a special mounting option it can be directly driven by a single 5 V supply or even 4.2V Li-Ion cells.

Same as for all other Trizeps modules a Microsoft Windows Embedded CE optimized BSP is available. The Trizeps VI module supports the Microsoft Windows Embedded CE 6.0 R3 Embedded operating system and a comprehensive media framework for connected consumer devices, including standard video and audio codecs, as well as Adobe Flash and Flash Lite™ players, advanced GUIs and widgets, and many third-party applications.

Keith & Koep's rich software environment speeds time-to-market and provides a common software base and a scalable platform to cover a breadth of product offerings.

[\(click here for more information\)](#)