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VIPER: PXA255 SBC

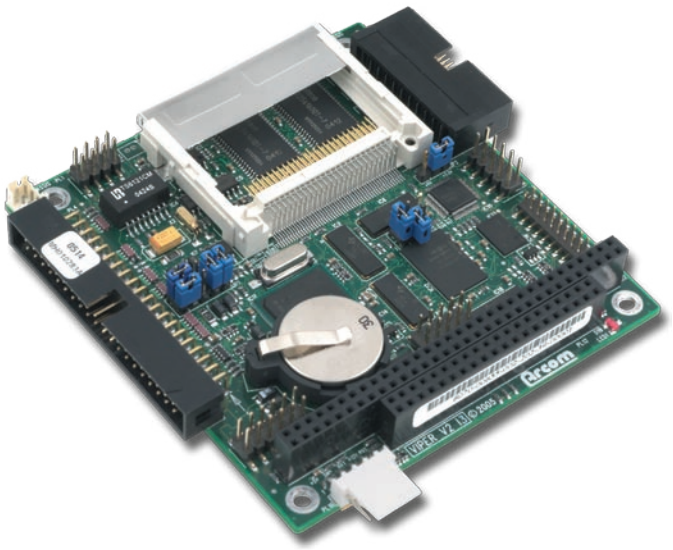
The VIPER is an ultra-low power, PC/104-compatible single board computer based on the Intel® 400 MHz PXA255 XScale® RISC processor. The PXA255 is an implementation of the ARM-compliant, Intel XScale microarchitecture combined with a comprehensive set of integrated peripherals, including a flat-panel graphics controller, DMA controller, interrupt controller, real-time clock, and multiple serial ports.

The VIPER board offers a long list of features making it ideal for power-sensitive embedded communications and multimedia applications. The board has been designed to take advantage of the power saving modes of the PXA255 processor and other onboard peripherals to achieve an incredible 1.9 W typical power consumption. The VIPER also supports a very low-power standby mode.

The VIPER board includes a TFT/STN flat-panel graphics controller, onboard soldered SDRAM and resident Flash, 10/100BASE-TX Ethernet, five serial ports, dual USB host controller, USB client, AC97 audio/codec, CompactFlash interface (CF+), and a standard PC/104 bus expansion connector. The PC/104 format is an industrial form factor measuring 3.8" x 3.6" (96 mm x 91 mm).

The VIPER is supported with development kits for the leading embedded operating systems including Windows CE 5.0, embedded Linux (RT-Linux Pro from FSM Labs), and VxWorks 5.5. Arcom also provides support for RedBoot™, a utility based on the eCos RTOS, which serves as a simple boot manager and download tool for embedded Linux applications.

To speed up the process of system integration, you can purchase the VIPER ICE industrial compact enclosure (fitted with a 320 x 240 wide temperature TFT/touchscreen display) or the rugged CYCLOPS display terminal (fitted with a high brightness 640 x 480 TFT/touchscreen display).



FEATURES:

- 400 MHz Intel PXA255 XScale processor
- 64 MB DRAM
- 64 MB Intel StrataFlash
- 256 KB battery-backed SRAM
- Direct TFT/STN display support with onboard bias supply
- 10/100BASE-TX Ethernet controller
- Five high-speed serial ports (4 x) RS-232, (1 x) RS-232/422/485
- Dual USB v1.1 host controller and/or USB device
- Industry standard PC/104 form factor
- Very low power operation – typically 1.9 W with sleep modes down to 200 mW
- Hot-swap CompactFlash (CF+) expansion port
- Support for Trusted Computing with ATMEL TPM module

For more information, contact: us-sales@arcom.com **RSC# 21063 @ www.pc104online.com/rsc**

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