

**PCI Embedded announces availability of USB to VME Remote Controller Kits  
Jackson, California, September 23, 2008**



**USB to VME Remote Controller Kit**



**VME Display and Diagnostic Card**

**VME Remote Control Kits** are an ideal solution to control a VME card cages with a low cost PC or Laptop. Enhanced functionality is given by the programmable internal FPGA logic which provides a VME command sequencer with 4kB stack and 28kB data buffer. Combined with the 4 front panel I/O ports this allows VME operation and data acquisition / buffering without any PC or USB activity. All logic is controlled by the XILINX Spartan 3 family FPGA. Upon power-up the FPGA boots from a flash memory. The configuration flash memory can be reprogrammed via the USB port, allowing convenient updates of the firmware. Following an open platform approach the user can develop new FPGA configurations.

**USB to VME Remote Controller Kit:**

- Low-cost VME master with high speed USB2 interface, auto-selecting USB2/USB1
- Can act as a slot-one bus arbiter and/or interrupt handler
- Responds to all 7 interrupt requests IRQ1-7, can generate any of the 7 interrupts.
- 4 user-programmable diagnostic LED's
- Logical operations performed by a Spartan 3 series FPGA, XC3S400, the FPGA configures itself upon power-up from a selected sector of the flash memory, which stores up to four configuration files. The boot sector is selected by setting of a front-panel rotary selector
- Any of the four sectors of the configuration flash memory can be reprogrammed (up to 10,000 times) via USB.
- VME sequencer: Internal FPGA can be programmed to operate as command sequencer with 4kB command stack and 28kB for data buffering (FiFo or dual-port RAM), stack is programmable via USB or VME
- Up to 32 Mbyte/s readout D32 (buffered) and BLT via USB2
- Open architecture, allowing the user to develop his own FPGA configuration
- Microsoft Windows (32-bit) and Linux support, LabView VI's (version 7.1 and 8.0)

**Related Products :**

- VME Display and Diagnostic card. Great add-on for VME application software development.