The DN6000k10PCI is a complete logic emulation system that enables ASIC or IP designers a vehicle to prototype logic and memory designs for a fraction of the cost of existing solutions. The DN6000k10PCI is hosted via +3.3V PCI or PCI-X slot, or can be used stand-alone. A single DN6000k10PCI configured with six 2vp100's can emulate up to 4 million gates of logic as measured by LSI. And this number does not include the embedded memories and multipliers resident in each FPGA. The DN6000k10PCI achieves high gate density and allows for fast target clock frequencies by utilizing FPGA's from Xilinx's VirtexII-Pro family for logic and memory. High I/O-count, 1704-pin, flip-chip BGA packages are employed providing for abundant, fixed interconnect between the FPGA's. RocketI/O's are connected between FPGA's, enabling data transfer between FPGA's on the order of gigabytes per second. A total of 320+ test pins are provided on the top of the PWB for logic analyzer-based debugging, or for pattern generator stimulus. The DNPMC104 card can be mounted to any of these connectors, enabling an interface to A/D’s, D/A’s, and a host of other embedded system peripherals. Also, custom daughter cards can be mounted to these connectors as a means to interface the DN6000k10PCI to application-specific circuits. Eight RocketI/O ports are reserved for high speed serial off-board interfaces. Reference material such as DDR SDRAM controllers, FLASH controllers, and PowerPC code is included (in Verilog, VHDL, C) at no additional cost.
Easy Configuration Via SmartMedia

The configuration bit files for the FPGA's are copied onto a 32/64/128-megabyte SmartMedia FLASH card (provided) and an on-board Cypress microprocessor controls the FPGA configuration process. FPGA configuration can also be controlled via the USB interface. Visibility into the configuration process is enhanced with an RS232 port. Sanity checks are performed automatically on the configuration bit files, streamlining the configuration process. FPGA configuration occurs at the fastest possible SelectMap frequency - 48MHz. Multiple LED's provide instant status and operational feedback.
Included Accessories

- Users' Manual:

For Technical applications and Sales Support, Call 858.454.3419