



LAB Microsystems, LLC

LM1000 PCI Development Daughterboard for TI TMS320C6416 DSK

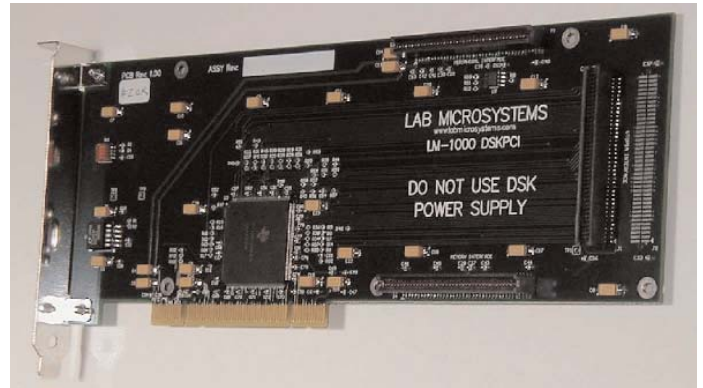
LM1000

LAB Microsystems specializes in DSP hardware development tools. The LM1000 is a low-cost daughterboard for the TI TMS320C6416 DSP Starter Kits (DSKs). The LM1000 provides high-speed host-DSK communication by utilizing the PCI bus of the DSK. By installing a DSK onto the LM1000, and then installing the LM1000 into a PC, the user has full access to the DSP through its PCI interface. The LM1000 DSK PCI carrier, utilizes the PCI interface of the TMS320C6416 DSK to provide a low cost PCI based development system. When coupled with a DSK, the LM1000 can be installed into any 33 MHz/32 bit PCI slot and still provide full Code Composer functionality through an external USB link.

The LM1000 when coupled with the DSK provides significant value and utility. The additional host-DSP data path, suitable for high speed real-time data transport, complements the I/O handling features of DSP/BIOS and enables a wide range of host-DSP cooperation. The LM1000 provides extreme leverage for your DSK at very low cost, transforming the standalone DSK into a powerful PCI based development system.

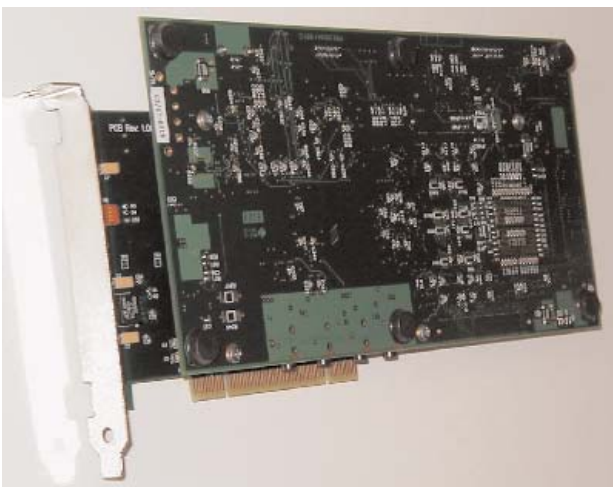
Each TI DSK is a comprehensive DSP software development system and includes a target DSP board, JTAG emulation, Code Composer Studio™ IDE and the DSP/BIOS™ multitasking kernel. Offering unprecedented value, this ultra low cost toolchain provides a powerful platform for LAB Microsystems, LLC products.

LAB Microsystems, LLC is a TI Third Party member and specializes in DSP hardware development tools and provides hardware design services.



Features

- DSK carrier card with industry standard TI2050 32 Bit Transparent Bridge.
- Mates to DSK PCI expansion connectors.
- Clocks, arbitration and level translation provided by PCI Bridge.
- Allows DSK to function as a slave processor to the host system.
- Code Composer functionality maintained through external USB connection.
- DSK can be configured to boot from host port through PCI bus or FLASH memory.
- Excellent driver development platform.
- Windows drivers available from third parties
- Example code provided



***“Products designed by engineers
for engineers”***

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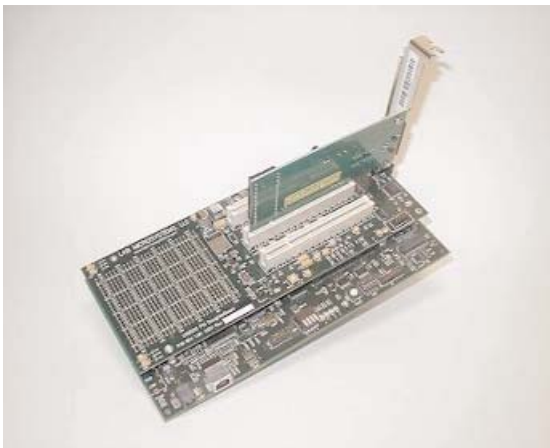
LM2000

Now you can utilize off the shelf PCI cards to supercharge your 6416DSK. The LM2000 installs on the TI 6416 DSK and maps the DSK's PCI interface connector to three standard 32 bit 33 MHz PCI slots. Use these slots to install ethernet cards, video cards, A/D cards, or most any off the shelf PCI card. A prototype area is also provided for development of custom circuits.

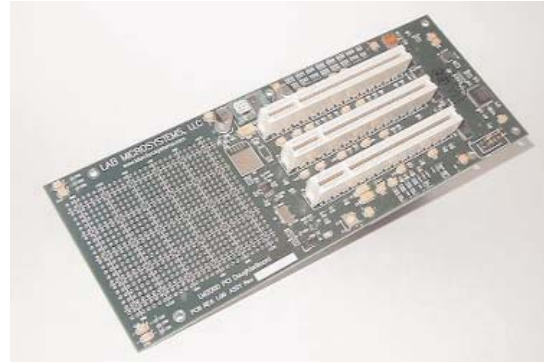
The LM2000 can be used to speed software development of embedded DSP systems. No need to wait for hardware prototypes; Your software team can now work in parallel on 'real' hardware getting you to market quicker.

Each TI DSK is a comprehensive DSP software development system and includes a target DSP board, JTAG emulation, Code Composer Studio™ IDE and the DSP/BIOS™ multitasking kernel. Offering unprecedented value, this ultra low cost toolchain provides a powerful platform for LAB Microsystems, LLC products.

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LM2000 Embedded PCI Development Daughterboard for TI TMS320C6416 DSK



Features

- C6416 DSP Daughterboard with three 5V 33/32 PCI slots
- Mates to the DSK PCI expansion connectors
- 6416 DSP functions as PCI bus enumerator
- PCI Arbiter with round robin arbitration
- 33.333 MHz clock generator
- Compatible with most 5V and universal PCI cards
- On board regulator for PCI slot 3.3V rails
- Prototype area for custom circuits
- EMIF signals routed to test points
- Example code provided

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