CPCI 320C6713B DSP
DUAL INDUSTRY PACK CARRIER

Summary

The new CPCI-6713B-IPC module provides a 3U high performance flexible I/O scheme, that supports industry standard Industry Packs™. For application requiring low cost, high density I/O or unique combinations, the CPCI-6713B-IPC is the perfect solution. The Local DSP can be used to simply move data to and from the CPCI bus or provide pre processing functions such as local PID controls, FFT's, digital filtering, etc. Custom application software can be downloaded to the DSP via the CompactPCI bus. A very low cost, non-intelligent version is also available, CPCI-SIP.

The TMS320C67x DSP generation is supported by the TI eXpressDSP™ set of industry development tools, including a highly optimizing C/C++ Compiler, the Code Composer Studio™ Integrated Development Environment (IDE), JTAG-based emulation, real-time debugging, and the DSP/BIOS™ kernel.

CPCI-6713-IPC

Advailable Drivers :

- Labview
- Linux
- Window XP

Board Features:

Bus Interface 3.3 / 5 Volt via PLX 9056 33/66MHz
High Performance Floating-Point Digital Signal Processor (DSP):
TMS320C6713B upto 300 MHzsystem clock.
Up to 32Mbytes of SDRAM
4.0 Mbit flash memory for bootstrap program

DSP Specifications:

TMS320C6713B™ DSP @ 300 Mhz
64K-Byte L2 Unified Cache/Mapped RAM, and 192K-Byte Additional L2 Mapped RAM
Dual 32 bit general purpose timers
16 channel EDMA 'Enhanced DMA'
16-bit Host-Port Interface (HPI)

Industry Pack Specifications:

Dual Industry Pack Sites
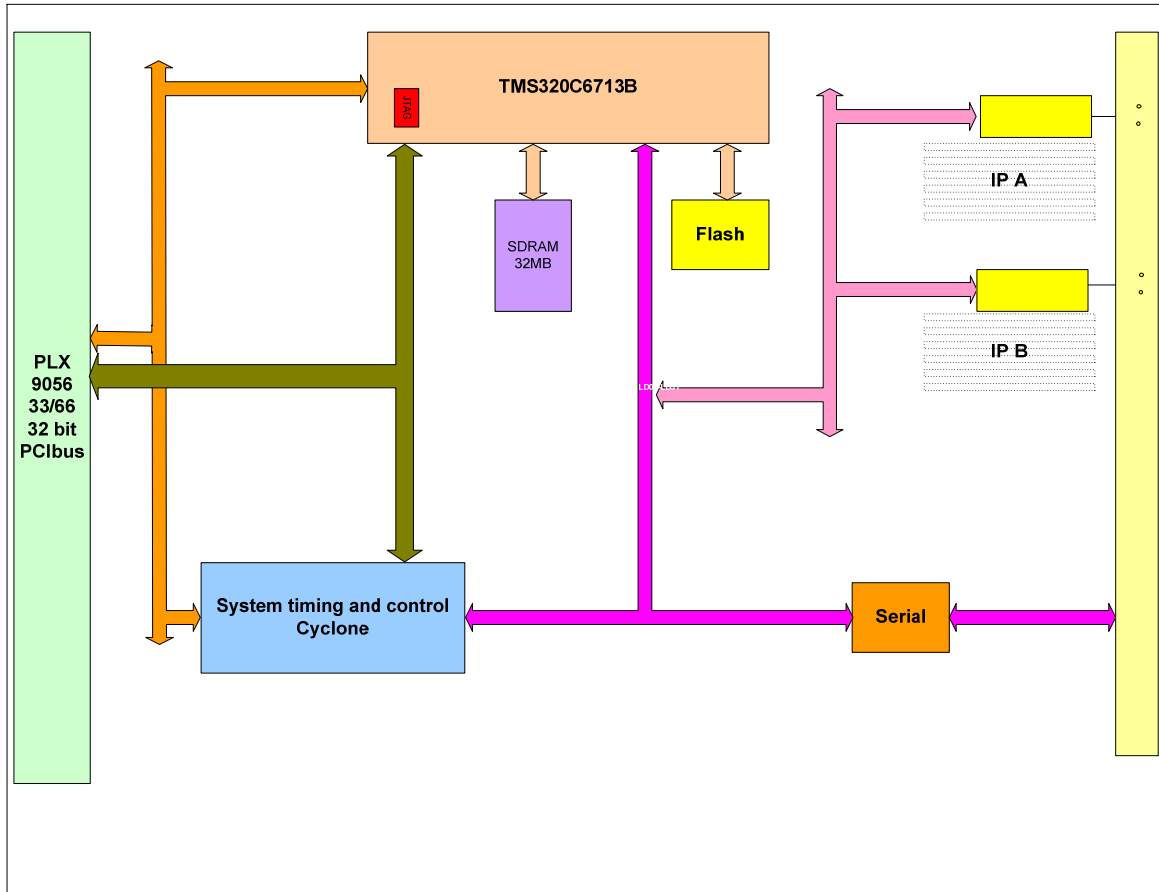8/32 MHz operation

CPCI Bus:

CPCI Bus Interface 3.3 / 5 Volt
PLX 9056 33/66MHz 32-bit, PCI r2.2 compliant
3.3V I/O, 5V tolerant bus interfaces

Debug Port:

JTAG emulator port
On board RS-232 header

I/O panel connectors:

Front Panel
(2) X 50 pin HRS for I/O

TMS320C6713B

JTAG

SDRAM 32MB

Flash

IP A

IP B

PLX 9056 33/66 32 bit PCIbus

System timing and control Cyclone

Serial

Functional Block Diagram

Mechanical & Environmental

- Operating temperature 0 to +55 °C
- Airflow requirement: 10 CFM
- Humidity: 5 to 90% (non-cond.)

- Altitude: 0 to 10'000 ft
- Full size PCI card
- Front panel I/O
- Power: +5v 1 amp, +12v 1 amp

- Vibration: 0.5G RMS 20-2KHz rand
- Shock: 20 G, 11 ms, ½ sine
- Weight: 2 lbs
- MTBF: >172000 hour

Ordering Information	
CPCI-6713B-IPC	3U Industry Pack Carrier with 320C6713 DSP
CBL-50-HRS	Cable
TB-50-HRS	Terminal Block

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