

## Summary

The new CPCI-6713-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-6713-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.

### Available Drivers :

- Labview
- Linux
- Window XP



## CPCI 320C6713 DSP DUAL INDUSTRY PACK CARRIER



CPCI-6713-IPC

### Board Features:

Bus Interface 3.3 / 5 Volt via PLX 9056  
 33/66MHz  
 High Performance Floating-Point Digital Signal Processor (DSP):  
 TMS320C6713B with a 300MHz system clock.  
 Up to 32Mbytes of SDRAM  
 4.0 Mbit flash memory for bootstrap program  
 Dual Industry Pack Sites  
 8/32 MHz operation

### 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)

### CPCI Bus:

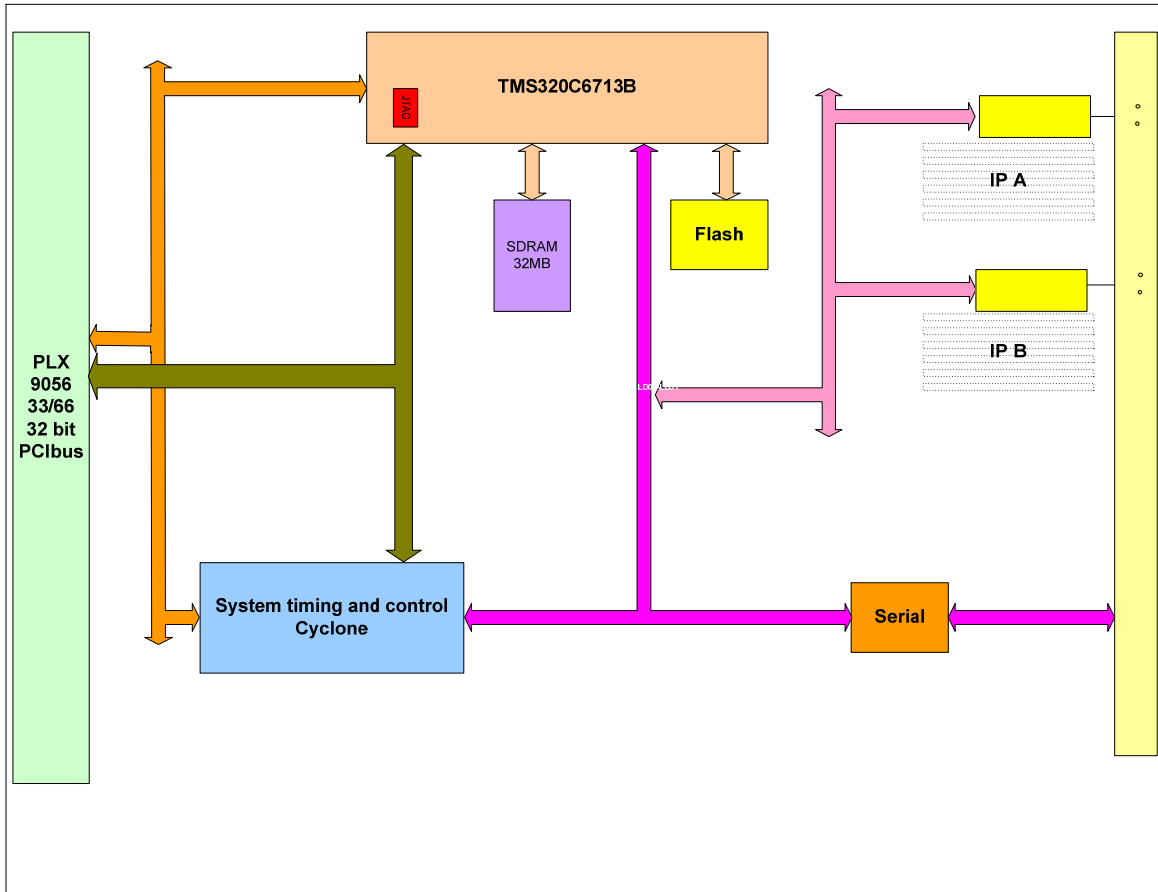
CPCI Bus Interface 3.3 / 5 Volt  
 PLX 9056 33/66MHz 32-bit, PCI r2.2 compliant  
 3.3V I/O, 5V tolerant bus interfaces

### Debug Port:

JTAG emulator port  
 On board RS-232 header

### I/O panel connectors:

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



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: >17200 hour

### Ordering Information

CPCI-6713-ISC8	3U CPCI 8 channel serial controller with 320C6713 DSP
CBL-50-HRS	Cable
TB-50-HRS	Terminal Block

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