

## Summary

The new CPCI-6713-ISC8 module provides a 3U high performance multi protocol serial controller, that supports RS-232, RS-422/485, TTL and user I/O configurations. The CPCI-ISC8 supports Synchronous, ASynchronous, bi-sync, Xon/Xoff, SDLC and HDLC communication modes. The Local DSP can be used to simply move data to and from the CPCI bus or provide pre processing and custom protocol functions. Custom application software can be downloaded to the DSP via the CompactPCI bus.

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 OCTAL SERIAL CONTROLLER



CPCI-6713-ISC8

### Board Features:

8 Serial channels  
Zilog 85230 controllers  
Mezzanine I/O module for RS-232/422/485 or user I/O  
3.3 / 5 Volt via PLX 9056 33/66MHz  
High Performance (DSP):  
TMS320C6713B, 300MHz  
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)

### CPCI Bus:

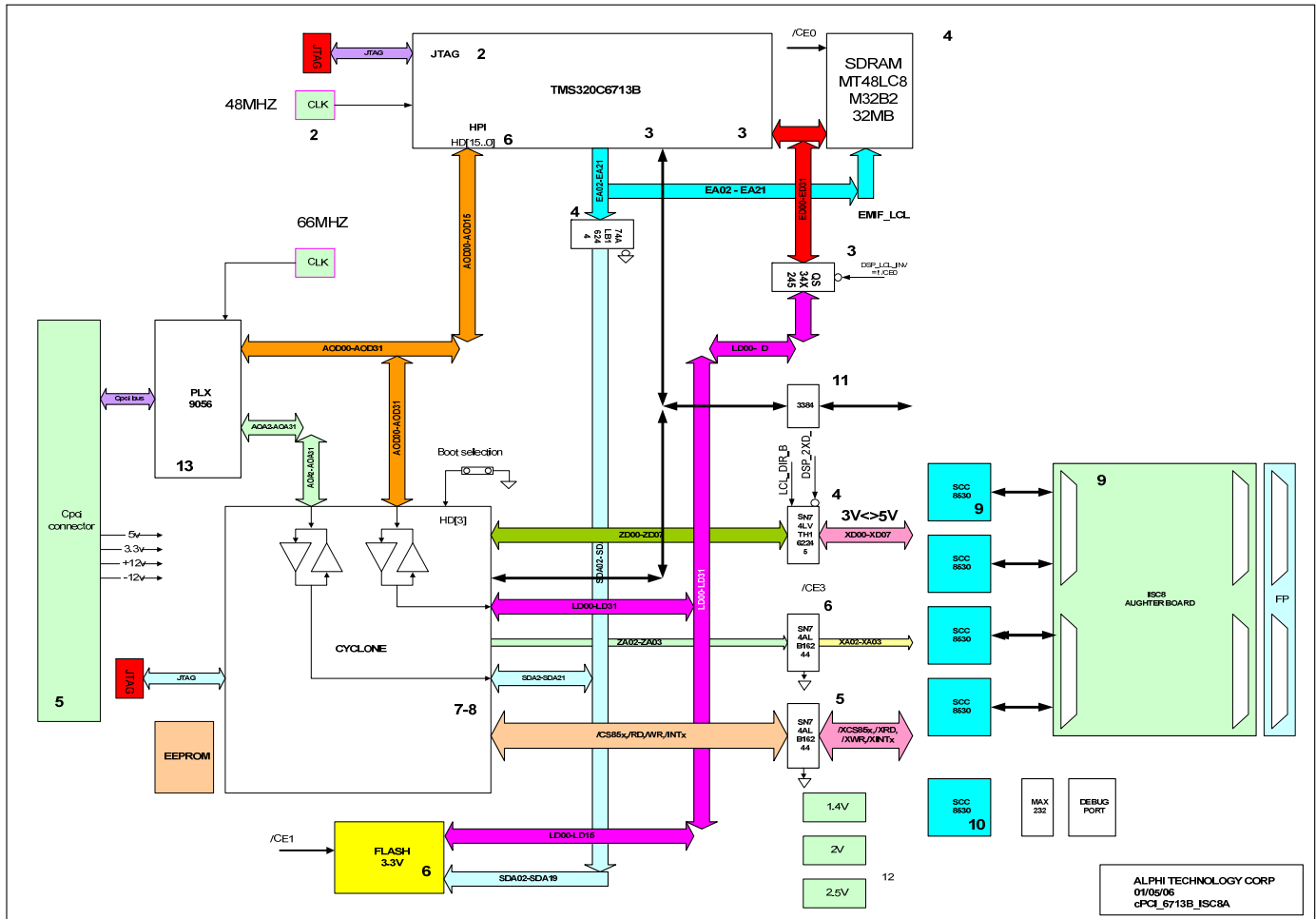
CPCI Bus Interface 3.3 / 5 Volt  
PLX 9056 33/66MHz 32-bit, PCI r2.2 compliant  
3.3V I/O, 5V tolerant bus interfaces

### 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 temp. 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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