PMC450
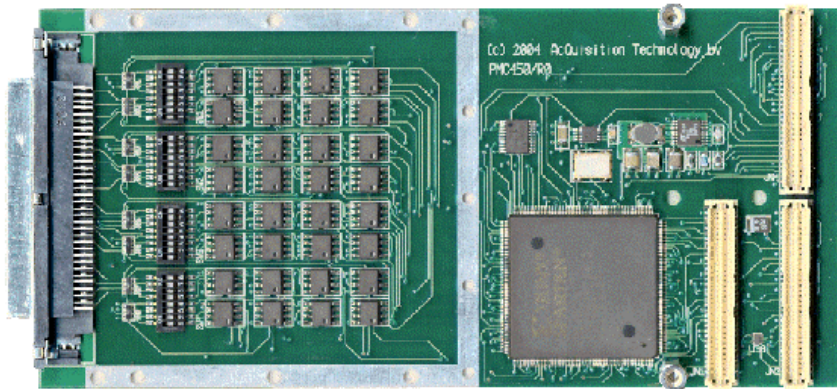
Serial Controller PMC (RS422)

The PMC450 is a FPGA-based 8 channel RS422 serial PMC card with front and rear I/O.

The standard configuration consists of a PCI-core and eight 16C550-uart compatible cores. With the 32 onboard RS422 transceivers 8 serial RS422 channels (Rx, Tx, RTS and CTS) are created. The PMC450 features a 68-pin high dense connector at the front for the connection of all the RS422 channels. A PIM (PMC I/O Interface) for rear I/O is optional. Usage in ruggedised systems with conductive cooling is also possible.

Because of the fully FPGA-based design, custom protocol interfaces for RS422 and RS485 are available on request. Examples of custom specific protocol interfaces are e.g. Serial I/O, Encoder Interfaces, Stepper Motor Controllers and more.

Features:

> Single PMC slot (IEEE 1386.1-2001) with front I/O and rear I/O
> Optional PIM450 (VITA 36) for rear I/O connections
> Xilinx FPGA softcore PCI interface
> 16C550 compatible host interface
> FIFO Depth 16 bytes
> Communication parameters 115Kb
> PCI interface: PCI2.1 compliant, 33MHz, 32-bit interface, 3.3V and 5V signalling supported, 5V supply
> 8 serial RS422 channels with Rx, Tx, RTS and CTS at 68-pin front or 64-pin rear connector
> Dipswitch selectable line termination
> Operating temperature 0..60°C and -40..+85°C

PCI Compliancy

* PCI 2.1 compliant
* PMC: IEEE 1386.1-2001 compliant
* 33MHz, 32-bit interface
* 3.3V or 5.0V PCI signalling
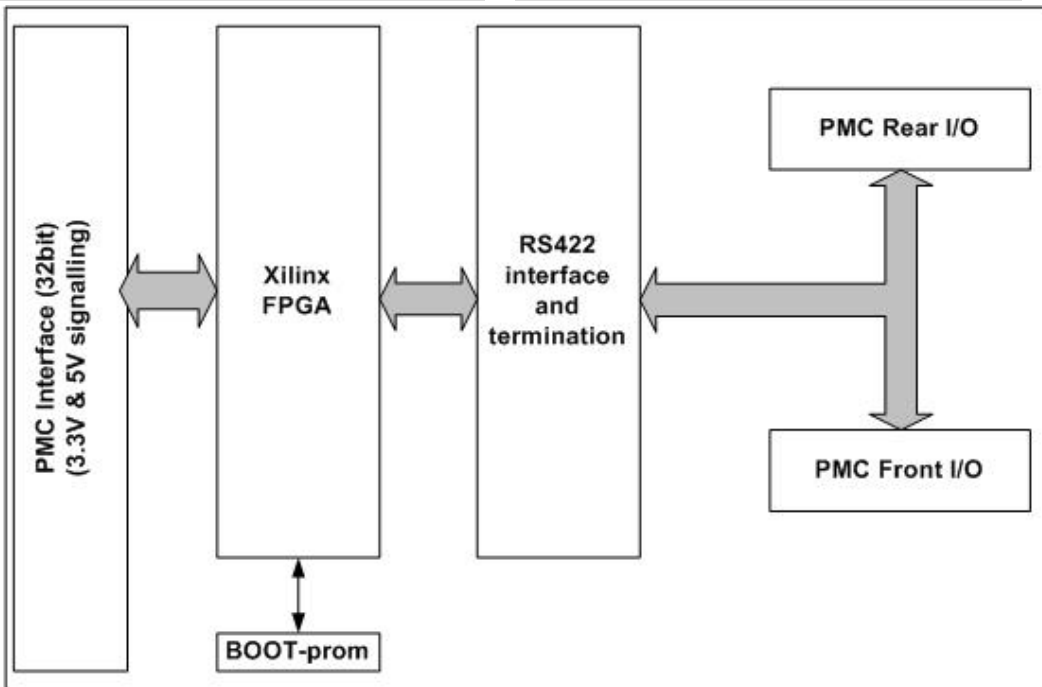* 5V supply voltage
* PIM: VITA 36 compliant

Host Interface

* Xilinx Spartan FPGA-based
* Softcore PCI/PMC-interface
* 16C550 compatible programming interface
* Custom host interfaces or line protocols
  available on request

Line Interfacing

* 32x RS422 transceivers in a default
  configuration of 8 transceivers with Rx, Tx,
  RTS and CTS
* Dipswitch selectable line termination
* High dense 68-pin front connector

Ordering Information

* **PMC450/T01** PMC Serial Controller Card
  with front and rear I/O, 0..60°C
* **PMC450/T02** PMC Serial Controller Card
  with front and rear I/O, -40..+85°C
* **PIMSCSI68/T01** Generic PIM which
  converts I/O signals to 68-pin SCSI

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