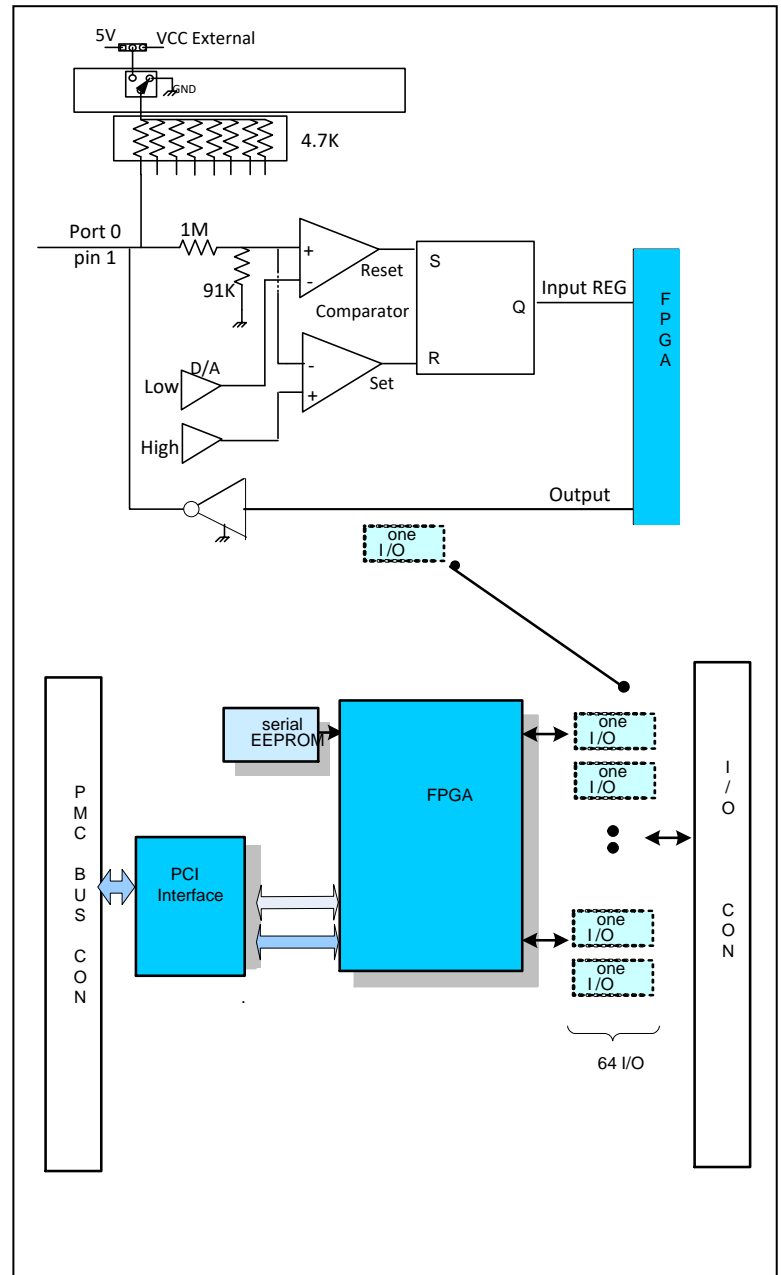


PMC Programmable Digital I/O, 64 channels

Features

- Up to 64 I/O pins available by groups of 8 I/O pins
- High Voltage – Can handle 60v inputs/outputs, internal circuitry to clamp inductive spikes to 60v max
- High Current – Can drive 100ma on each channel. Internal circuitry can detect over-current situations and shut down the board
- Programmable Hysteresis
On board DACs allow setting the set/reset thresholds on a per port basis from 0-60v.
- High Speed – Outputs and input good through 2mhz.
- Programmable pullup/pulldown
Board can set a resistor bank to pullup/pulldown mode in software, solving power sequencing problems.
- On board resistor-networks – No need to mount external pull-ups. Of course it is possible to remove the on board networks to make use of external ones.
- High input impedance – Standard input impedance of 1M ohms.
- Power on reset – All outputs are guaranteed to be high impedance while the board is powering on.
- Output read back – Inputs can be simultaneously enabled with the outputs to verify a state change.
- Interrupts – All channels can be set an interrupt source.



Block Diagram and Operational Overview

The **PMC-DIO64** PMC board has 64 channel Altera-based, programmable I/O pins that support voltages of up to +60VDC. The pins can are available in groups of 8 pins. Each output can be read back. Inputs have

variable thresholds, and can support contact and switched voltages. All inputs also have 2 D/A control for hysteresis Set and Reset. All inputs can have a selectable input voltage reference - +5VDC, ground, and an external reference for other voltage inputs.

Applications:

This is a perfect solution for:

- Control systems

Software Support:

Windows, Linux and VxWorks

Output Specifications:

- N-Channel Enhancement Mode Field Effect Transistor
- Drain to source breakdown voltage of +60VDC
- Continuous drain current of 0.5A
- Drain to source equivalent on resistance of 1.2Ω
- Turn on delay time of 10nsec max
- Turn off delay time of 10nsec max

PMC Bus:

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

I/O panel connectors:

Front Panel 68 pin SCSI Connector

Operating Environment:

- Operating temperature
Commercial: 0 to +70 °C
Optional: -40 °C to +85 °C
- Non-operating: -45 °C to +100 °C
- Airflow requirement – 5 CFM
- Humidity – 5 to 90% (non-cond)
- Altitude – 0 to 10,000 feet

Mechanical Environment:

- Size – Single Wide PMC module
74mm x 149mm
- Power – 1.5 watt
- Vibration – 0.5G, 20-2000 Hz rand
- Shock – 20G, 11 msec, ½ sine
- Weight – 3 ounces
- MTBF – >250,000 hours



Ordering Information:

Part number:	PMC-DIO-64	64 bit digital I/O PMC module
	PMC-DIO-64-I	same as above at -40° to +85°C

Optional Accessories

Part number:	
TB-68-SCSI	68 pin terminal block and 1meter SCSI cable
CBL-68-SCSI	68 pin,1meter SCSI