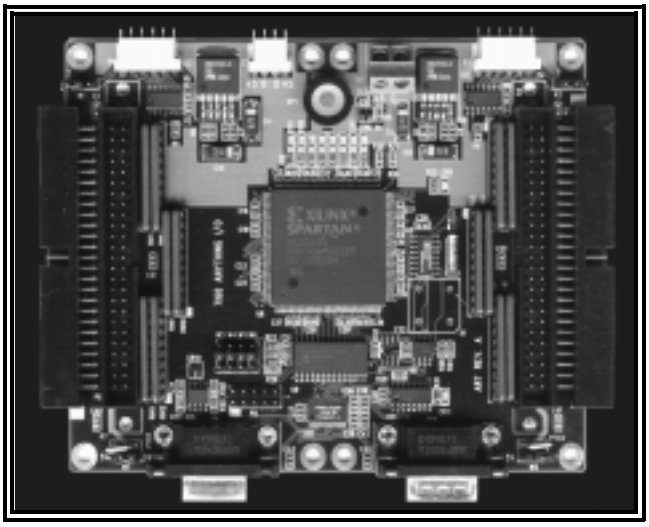
7I60 FPGA based “Anything I/O” CARD

- **96 programmable I/O bits**
- **5V tolerant I/O**
- **I/O module rack compatible pinouts**
- **2X RS-232 ports 2X RS-485 ports**
- **Local EEPROM configuration storage**
- **200K gate Xilinx Spartan II FPGA**
- **Configuration download via serial port**
- **Sites for 2 Anything I/O daughter cards**
- **Single 5V supply**
- **Many configurations included**
- **Made in USA — Local support**
- **2 Year warranty**



The 7I60 is a standalone (no bus) version of the FPGA based Anything I/O card series. It provides 96 I/O bits and 4 serial ports.

There are 2 RS-232 ports and 2 RS-485 ports. One of the RS-232 serial ports is used for downloading initial configurations to the on-card Flash EEPROM for FPGA configuration, the other ports can be used for any purpose.

The 96 I/O bits are available on four 50 pin connectors, 24 bits per connector. The 50 pin connectors have I/O module rack compatible pinouts. The connector pinout uses interleaved grounds for lower crosstalk and controlled impedance. Socketed pull-up resistor networks (or optional termination networks) are provided for all I/O bits.

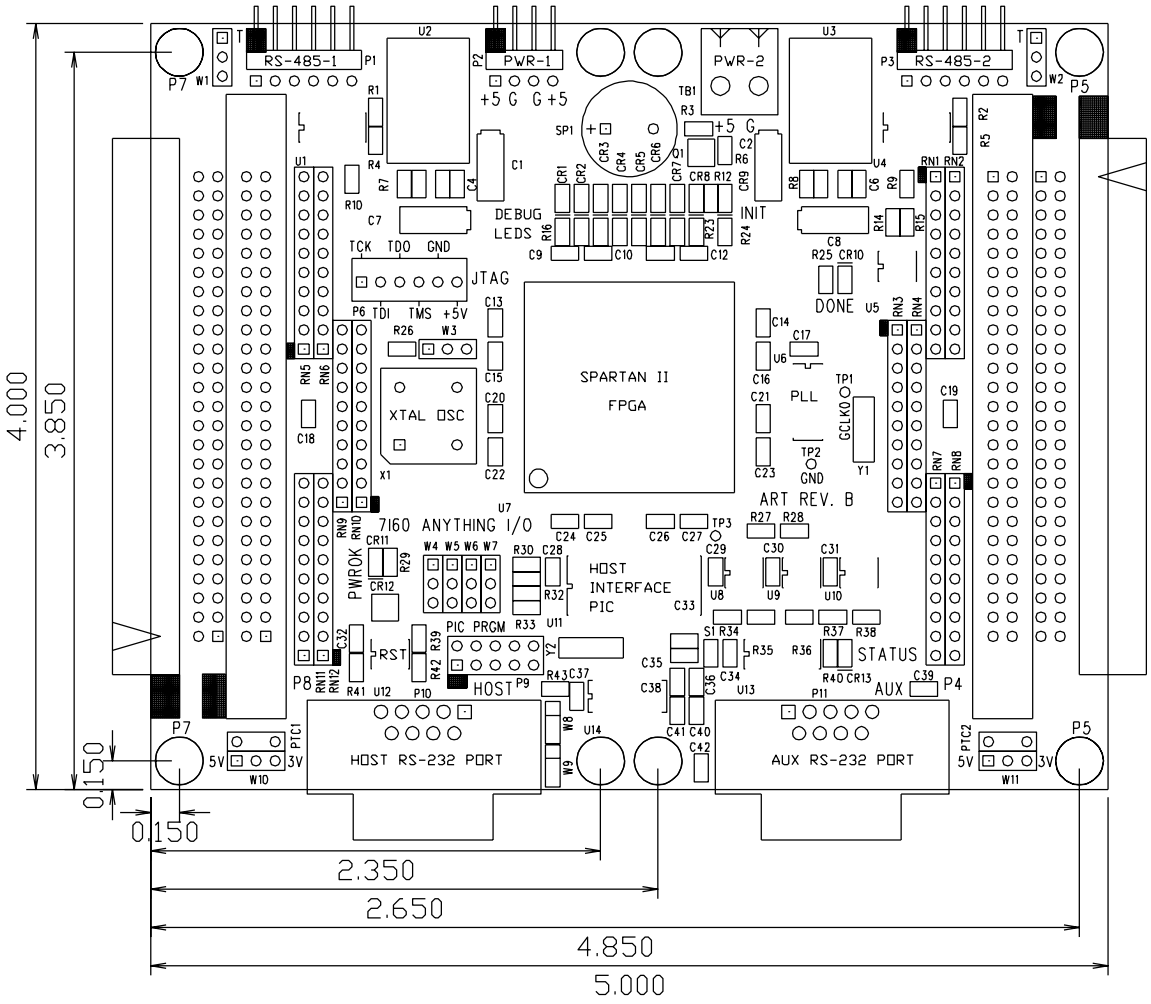
PwrGood, Done, Init and status LEDs are provided for debugging puposes as are 8 FPGA driven LEDs and a FPGA driven beeper.

Several I/O interface daughter cards are available for the 7I60. These cards include a 4 axis 3A Hbridge, a 2 Axis 3A stepper motor driver, an analog servo amp. interface, an RS-422/485 interface, and a debug LED card. 2 daughter cards can plug directly onto the 7I60.

Many IO configuration files are provided with the 7I60 including simple remote I/O, smart remote I/O, 4 and 8 axis servo motion control, 4 and 8 axis microstepping stepper motor control, multiple channel PWM generator, quadrature counters and more. VHDL source is provided for all configurations.

2 FPGA system clocks are provided: a 50MHZ Crystal and a 25,33,50,66,80 MHz PLL.

The 7I60 uses a 200K gate Xilinx SpartanII FPGA. Free development tools for The SpartanII are available (Xilinx WebPack) from Xilinx’s web site.



ORDERING INFORMATION:

Base part number:

7I60

Add -I for Industrial temperature version