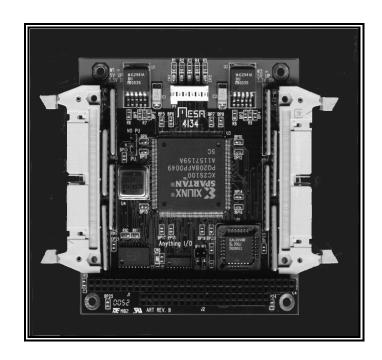


4134 ANYTHING I/O CARD

- Xilinx FPGA BASED I/O card
- 64 or 48 I/O BITS (4I34/4I34M)
- 5V tolerant I/O
- 24 mA output drive
- Full 16 bit PC104 I/O interface
- Interrupts and DMA support
- Many I/O functions supplied
- 6 or 8 LED status indicators
- Source supplied for all functions
- FPGA downloaded from host
- Low power consumption
- Made in USA local support
- 2 year warranty



The MESA 4I34 is a general purpose programmable I/O card for the PC/104 bus. The 4I34 uses a 100K or 200K gate Xilinx FPGA for all logic, so it is truly an "Anything I/O" card.

The FPGA is downloadable from the PC/104 bus side, allowing creation of almost any kind of specialized I/O function, even including micro-controllers in the FPGA.

Several pre-made functions are provided, including a 64 channel event capture card, a 64 bit parallel I/O card with 16 bit host interface, an 8 channel host based servo motor controller, a 4 channel micro-controller based servo motor controller (micro-controller CPU built into FPGA), and a 8 channel, 32 bit timer counter card capable of running at 100 MHz.

VHDL source is provided for all examples and custom I/O functions can be provided on a contract basis.

All I/O bits are 5V tolerant and can sink 24 mA. Pullup resistors are provided for all pins so that they may be connected directly to optoisolators, contacts etc.

The 4I34 is available in 2 versions, the 4I34 with 64 I/O bits and the 4I34M with 48 I/O bits. The 4I34 uses two 40 pin connectors with proprietary pinouts, while the 4I34M uses two 50 pin connectors with I/O module rack compatible pinouts and interleaved grounds.

6 (4l34) or 8 (4l34M) LEDs are available for circuit debugging or circuit status information.

Configuration decode can be at 210H 220H or 230H. Configuration decode can be disabled after FPGA is configured to reclaim I/O space.

A 50 MHz crystal oscillator is provided as a system clock. Higher frequencies can be generated by the PLL built into the FPGA.

MESA 4134 ANYTHING I/O

4I34/4I34M CONNECTOR PINOUT:					
PIN#	4I34 SIGNAL	4I34M SIG	PIN#	4I34 SIGNAL	4134M SIGNAL
1	GND	I/O	2	I/O	GND
3	I/O	I/O	4	I/O	GND
5	I/O	I/O	6	I/O	GND
7	I/O	I/O	8	I/O	GND
9	I/O	I/O	10	VCC	GND
11	GND	I/O	12	I/O	GND
13	I/O	I/O	14	I/O	GND
15	I/O	I/O	16	I/O	GND
17	I/O	I/O	18	I/O	GND
19	I/O	I/O	20	VCC	GND
21	GND	I/O	22	I/O	GND
23	I/O	I/O	24	I/O	GND
25	I/O	I/O	26	I/O	GND
27	I/O	I/O	28	I/O	GND
29	I/O	I/O	30	VCC	GND
31	GND	I/O	32	I/O	GND
33	I/O	I/O	34	I/O	GND
35	I/O	I/O	36	I/O	GND
37	I/O	I/O	38	I/O	GND
39	I/O	I/O	40	VCC	GND
41		I/O	42		GND
43		I/O	44		GND
45		I/O	46		GND
47		I/O	48		GND
49		VCC	50		GND

ORDERING INFORMATION:

4I34 Anything I/O PC/104 64 bit - 2X 40 pin connectors 4I34M Anything I/O PC/104 48 bit - 2X 50 pin connectors

Add -I for industrial temperature range. Add -2 for 200K gate FPGA instead of 100K