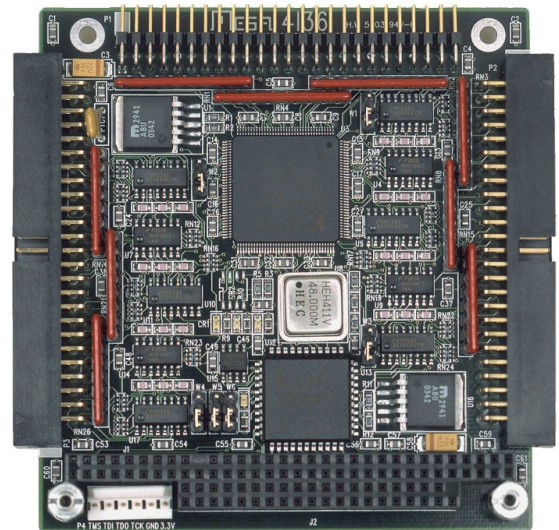




## 4I36 PC/104 EIGHT CHANNEL QUADRATURE COUNTER

- Eight 32 bit quadrature counters
- Selectable TTL or RS-422 inputs
- Up/down (1X) or true quadrature mode
- Index inputs/Clear-On-Index capability
- 10 MHz counting rate (RS-422)
- Digital filter on quadrature inputs
- 24 general purpose I/O bits
- FPGA based, allows field upgrades
- Counter pinout compatible with 4I30
- Two year warranty
- Made in USA – Local support



The 4I36 is a stackable PC/104 card with eight 32 bit up/down counters with quadrature count inputs and per channel index inputs. The 4I36 is intended for robotic, motor control, measurement, and instrumentation applications.

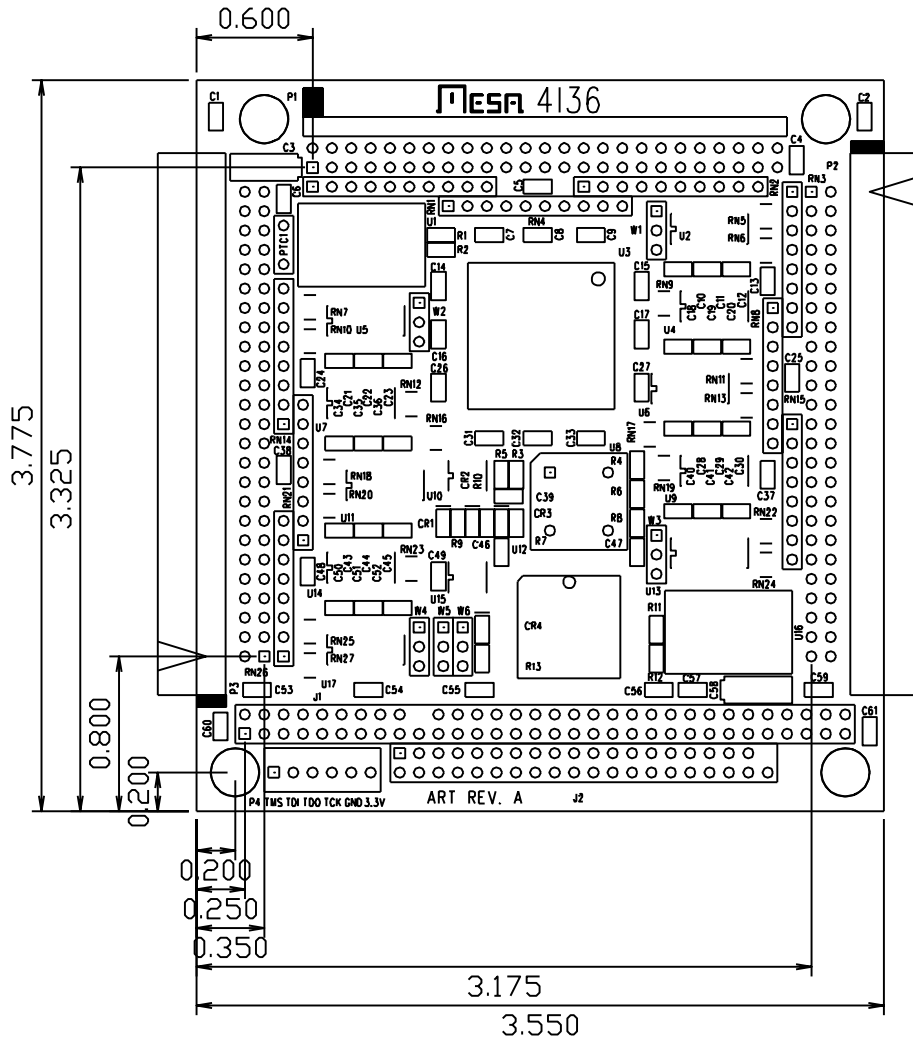
The 4I36 has selectable TTL or RS-422 levels on its quadrature and index inputs. TTL or RS-422 operation is jumper selectable in groups of two channels. The TTL inputs have pullup resistors and RC / Schmitt filtering. The differential RS-422 inputs are suited for longer cable lengths and have optional termination.

In addition to the counters, 24 general purpose I/O bits capable of sinking 24 mA are provided for control applications. These I/O bits are organized as two 12 bit ports with per bit direction control.

The 4I36 counters can count in normal quadrature mode (4X) or up/down mode (1X). Digital filtering is used on encoder inputs to reject input noise. Each counter has a option to be cleared by either the rising or falling edge of the index signal.

Maximum count rate of the 4I36 with TTL inputs is 4 million counts per second. Maximum count rate with RS-422 inputs is 10 million counts per second.

The 4I36 uses a FPGA chip for all counting and I/O, so it can be easily upgraded or modified in the field for specific requirements. The FPGA configuration flash memory can be updated from the host, no special cable or adapters are required.



**ORDERING INFORMATION:**

- 4136                      Commercial temp version. (0 .. +70C)
- 4136-I                    Industrial temp. version (-40 .. +85C)