# **SPECIFICATIONS**

CIO-INT32

## Interrupt Processor



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Typical for 25°C unless otherwise specified.

### **Power consumption**

+5V Operating 440 mA typical, 720 mA maximum

## Counter/Timer and Parallel I/O

Device Zilog Z85C36 (2)

Output High 2.4 volts min @  $-250 \mu A$  Output Low 0.5 volts max @  $+3.2 \mu A$ 

Input High 2.0 volts min, 7 volts absolute maximum
Input Low 0.8 volts max, -0.3 volts absolute min
Power-up / reset state Input mode (high impedance)

Configured as Digital Input/Output Ports:

Digital Configuration 4 banks of 8 (Ports A and B), 2 banks of 4 (Port C), programmable

by bit or bank as input or output

Number of channels 40 I/O

Configured as Counter/Timers: (Port A is a Digital I/O port only)
Counter type Zilog Z85C36

Counter Configuration 6, 16-bit counter/timers (Port B, High and Low nibble, and Port C)

All Trigger (C1-C3 TRIG), Source (C1-C3 IN), Gate (C1-C3 GATE), and Output (C1-C3 OUT) available at user connector.

Clock input frequency 3 MHz maximum
High pulse width (clock input) 150 ns minimum
Low pulse width (clock input) 150 ns minimum
Trigger pulse width (high, low) 130 ns minimum

#### **Interrupts:**

The Z8536 is programmable to generate interrupts based on bit change, pattern recognition, level or edge triggered, whether configured as a digital I/O port or counter port. See Z8536 manual for further options.

Interrupts Levels 2 through 7, jumper selectable (IRQ LEVEL)

Interrupt enable Jumper-selectable (IRQ LEVEL) and external (INT ENABLE),

active low (pulled high through resistor).

Interrupt sources Jumper-selectable (INT SRC): 8536A interrupt output, 8536B

interrupt output, 8536A OR'ed with 8536B, external (INT INPUT,

positive edge-triggered) or None.

Interrupt output Buffered output for each chip available at user connector (INTA

OUT, INTB OUT).

Interrupt priority Jumper-selectable (INT PRIORITY): No priority or 8536A

interrupt has priority over 8536B interrupt.

#### **Environmental**

Operating temperature range  $0 \text{ to } 50^{\circ}\text{C}$ Storage temperature range  $-20 \text{ to } 70^{\circ}\text{C}$ 

Humidity 0 to 95%, non-condensing

Measurement Computing Corporation 16 Commerce Boulevard, Middleboro, Massachusetts 02346

(508) 946-5100 Fax: (508) 946-9500

E-mail: info@measurementcomputing.com www.measurementcomputing.com