

SPECIFICATIONS

CIO-CTR10HD

CIO-CTR20HD

Counter/Timers



**MEASUREMENT
COMPUTING™**

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Typical for 25°C unless otherwise specified.

POWER CONSUMPTION

+5V	
CIO-CTR10HD	475 mA typical, 590 mA max
CIO-CTR20HD	800 mA typical, 1 A max

COUNTERS

Counter type	9513
Configuration	
CIO-CTR10HD	Two 9513 devices. 5 counters per 9513, 16 bits each
CIO-CTR20HD	Four 9513 devices. 5 counters per 9513, 16 bits each
Clock input frequency	7 Mhz max
X2 Clock input source	1 MHz (10 MHz Xtal divided by 10), 5MHz (10MHz Xtal divided by 2) or external; software selectable
High pulse width (clock input)	70 ns min
Cycle time (clock input)	145 ns min
Gate pulse duration	145 ns min
Input low voltage	-0.5V min, 0.8V max
Input high voltage	2.2V min, 5V max
Output low voltage	0.4V max @ 3.2mA
Output high voltage	2.4V min @ -200µA
Crystal oscillator clock source	10 MHz
Frequency accuracy	
CIO-CTR##HD	100 ppm
CIO-CTR##HD/H50	50 ppm
	DIGITAL I/O
Interrupts	2 to 7, software selectable
Interrupt enable	Programmable
Interrupt sources	External

ENVIRONMENTAL

Operating temperature range	0 to 50°C
Storage temperature range	-20 to 70°C
Humidity	0 to 90% non-condensing

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