



I-8084W

I -8084W


4/8-channel Counter/Frequency/Encoder Module

Introduction

I-8084W-G is a 32 bits (hardware) high speed Counter/Frequency/Encoder I/O with “Up Counter”, “Frequency”, “Up/Down Counter”, “Dir/Pulse Counter” and “A/B Phase Counter” mode.

I-8084W-G can has variety mode combination for all 8 channels. That means it can use some channels as “Up Counter” and others as “Frequency” or “A/B Phase”.

Specifications

Digital Input		
Mode	Counter & Frequency	4-ch Up/Down Counter (CW/CCW) 4-ch Dir/Pulse Counter (Bi-direction) 4-ch A/B Phase (Quadrant Counting) 8-ch Up Counter 8-ch Frequency
	Digital Noise Filter	1 ~ 32767 μ s
Isolated Input Level	On Voltage Level	+4.5 VDC ~ +30 VDC
	Off Voltage Level	+1 VDC Max.
TTL Input Level	On Voltage Level	+2 VDC ~ +5 VDC
	Off Voltage Level	0 VDC ~ +0.8 VDC
Minimum Pulse Width		2 μ s 
Input Frequency		1 Hz ~ (typically) 250 kHz (both counter mode and frequency mode) (where 250 kHz is calculated as followings: supposed that duty cycle = 50%, refer to Minimum Pulse Duration of High Level, we have pulse period = 2 μ s x 2 = 4 μ s, which is 250 kHz as a maximum) Maximum Frequency: refer to Minimum Pulse Duration of High Level, maximum frequency is highly affected by duty cycle Frequency Accuracy = \pm 0.4 %
EEPROM		128 KB
Isolated Voltage		1000 Vrms
ESD Protection		2 kV (Contact for each channel)
LED Display		
		1 LED as Power Indicator
		8 LEDs as Digital Input Indicators
Power		
Power Consumption		1 W
Environment		
Operating Ttemperature		-25 to 75 $^{\circ}$ C
Storage Ttemperature		-30 to 85 $^{\circ}$ C
Humidity		5 to 95%, Non-condensing
Dimensions		
		30 x 102 x 115 (W x D x H)

Ordering information

I-8084W-G CR

4/8-channel Counter/Frequency/Encoder Module (Gray Cover) (RoHS)