I-8084W

4/8-channel Counter/Frequency/Encoder Module

Model: I-8084W

Features

- Support 8 Up Counter (Minimum Pulse Width=2 µs).
- Support 8 Frequency (Minimum Pulse Width=2 µs).
- Support 4 Up/Down Counter (Minimum Pulse Width=2 µs).
- Support 4 Dir/Pulse Counter (Minimum Pulse Width=2 µs).
- Support 4 A/B Phase Counter (Minimum Pulse Width=2 µs).
- Support 1~32767 (us) digital filter.
- Support isolated and non-isolated input signals.
- Equip with Power and Input signal LED indicators.

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".

Applications

Counter measurement, Frequency measurement and Encoder motion control.

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 µs
Isolated Input Level	On Voltage Level	+4.5 VDC ~ +10 VDC
	Off Voltage Level	+1 VDC Max.
	Minimum Pulse Width	2 µs
	Input Frequency	1 Hz ~ 250 kHz
		Frequency Accuracy = ± 0.02 % ~ 0.025 % (Note 1)
TTL Input Level	On Voltage Level	+2 VDC ~ +5 VDC
	Off Voltage Level	0 VDC ~ +0.8 VDC
	Input Frequency	1 Hz ~ 1M Hz
		Frequency Accuracy = ± 0.02 % ~ 0.1 % (Note 1)
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 Temperature		-25 ~ +75 °C
Storage Temperature		-30 ~ +85 °C
Humidity		5 ~ 95%, Non-condensing
Dimensions		
30mm x 102mm x 115mm (W x L x H)		

Note 1:

Input Frequency (Hz)	Measurement Mode	Accuracy (%)
<10	1 Pulse Mode	+/- 0.02
10 ~ 10K	11 Pulse average Mode	+/- 0.01
10K ~ 100K	11 Pulse average Mode	+/- 0.015
100K ~ 250K	11 Pulse average Mode	+/- 0.025
250K ~ 1M (TTL only)	11 Pulse average Mode	+/- 0.10

For more detail information, please refer I-8084 User manual.

Ordering Information

I-8084W-G CR	4/8-channel Counter/Frequency/Encoder Module (Gray Cover) (RoHS)	Art. No. 120743

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