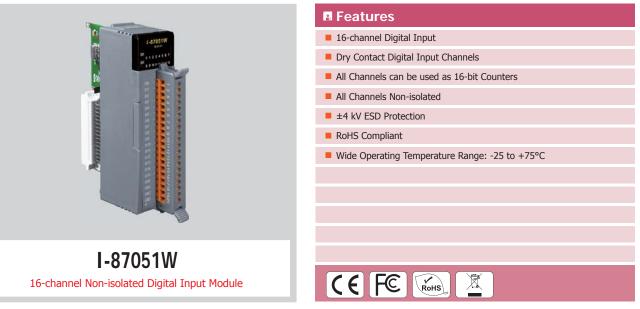


RS-485 Remote I/O Modules



Introduction _

The I-87051W is a 16-channel Digital Input module for dry contact wire connections with an effective distance of up to 100 meters. All channels can be used as 16-bit counters and 4 kV ESD protection is provided. The I-87051W $\,$ also includes 16 LED indicators that can be used to monitor the status of the Digital Input channels.

Applications .

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

System Specifications ______ I/O Specifications _____

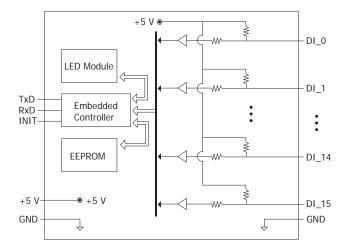
Communication				
Interface	RS-485			
Format	N, 8, 1			
Baud Rate	1200 to 115200 bps			
Protocol	DCON			
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)			
LED Indicators/Display				
System LED Indicator	Yes, 1 as Power/Communication Indicator			
I/O LED Indicators	16 as High/Low Alarm Signals			
Isolation				
Intra-module Isolation, Field-to-Logic	-			
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
ESD (IEC 01000-4-2)	±8 kV Air for Random Point			
Power				
Power Consumption	0.5 W Max.			
Mechanical				
Dimensions (L x W x H)	115 mm x 30 mm x 102 mm			
Environment				
Operating Temperature	-25 to +75°C			
Storage Temperature	-40 to +85°C			
Humidity	10 to 95% RH, Non-condensing			

Digital Input			
Channels			16
Туре			Dry Contact
Sink/Source (NPN/PNP)		PN/PNP)	Source
Dry Contact		ON Voltage Level	Close to GND
		OFF Voltage Level	Open
Web Centerat		ON Voltage Level	1 VDC Max.
Wet Contact	J	OFF Voltage Level	+3.5 VDC ~ +30 VDC
	Channels		16
Counters N	Ma	ax. Count	16-bit (65535)
	Ma	ax. Input Frequency	100 Hz
	Min. Pulse Width		5 ms
Channel-to-Channel Isolation		nnel Isolation	-
Low Pass Filter			Yes
Effective Distance for Dry Contact		ce for Dry Contact	100 m Max.

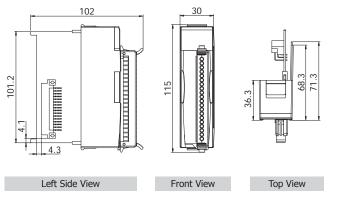
RS-485 Remote I/O Modules

I-87KW Series

Internal I/O Structure ____



Dimensions (Units: mm)



Wire Connections _

Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
	Close to GND (+1 VDC Max.)	OPEN (+4 V _{DC} ~ +30 V _{DC})
Dry Contact	← □⊖ DIx □⊖ (B)GND	X DIX (B)GND

Pin Assignments _

<i>i</i> -87051W	Terminal No.		Pin Assignment
16CH D/I		01	DIO
0 1 2 3 4 5 6 7		02	DI1
8 9 10 11 12 15		03	DI2
	[(04	DI3
	[, = 1	05	DI4
	, • (06	DI5
	[• (07	DI6
	, • (08	DI7
	Ç = (09	DI8
	5-1	10	DI9
	(= (11	DI10
	200	12	DI11
	(° • (13	DI12
	[- I	14	DI13
	(P	15	DI14
		16	DI15
	(° = (17	GND
		18	GND
20	C = (19	GND
		20	GND

Ordering Information -

I-87051W-G CR

16-channel Non-isolated Digital Input Module using the DCON Protocol (Gray Cover) (RoHS)

Accessories -

SG-770 CR

7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)