





Introduction -

I-87046W features long distance measurement for digital input. Its effective distance for dry contact is up to 500 meters. I-87046W supports sink type input. All of its 16 channels are also able to be used as 16-bit counters. I-87046W not only has 16 LED indicators for channel status but get qualification for 4 KV ESD protection.

Features

- Support Digital Inputs (Sink Type)
- Long Distance Measurement
- Can Be Used As Counters
- 4 kV ESD Protection
- RoHS Compliant
- Wide Operating Temperature Range: -25 ~ +75°C









Applications -

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

System Specifications _

Communication				
Interface	RS-485			
Format	N, 8, 1			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON			
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable			
LED Indicator/Display				
System LED Indicator	Indicator 1 LED as Power/Communication Indicator			
I/O LED Indicator	LED Indicator 16 LEDs as High/Low Alarm Signals			
Isolation				
Intra-Module Isolation, Field-to-Logic	3000 V _{DC}			
EMS Protection				
ECD (IEC (1000 4.3)	4 kV Contact for Each Terminal			
ESD (IEC 61000-4-2)	8 kV Air for Random Point			
Power				
Power Consumption	1.0 W Max.			
Mechanical				
Dimensions (W x L x H)	30 mm x 102 mm x 115 mm			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-40 ~ +85°C			
Humidity	10 ~ 95% RH, Non-condensing			

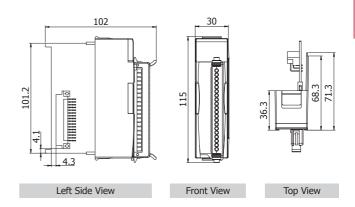
■ I/O Specifications __

Digital Input				
Channels			16	
Туре			Dry+Wet	
Sink /Source (NPN /PNP)		PN /PNP)	Sink, Source	
Dry Contact		On Voltage Level	Close to GND.	
		Off Voltage Level	Open	
Wet contact		On Voltage Level	+1 V _{DC} Max.	
		Off Voltage Level	+3.5 Vpc ~ 30 Vpc	
Counters	Channels		16	
	Max. Counts		16-bit (65535)	
	Max. Input Frequency		100 Hz	
	Min. Pulse Width		5 ms	
Channel to Channel Isolation		nnel Isolation	Yes	
Low Pass Filter			Yes	
Effective Distance for Dry Contact		ce for Dry Contact	500 m Max.	

Internal I/O Structure _____

TxD Embedded Controller EEPROM END OF TABLE OF THE PROPERTY OF THE PROPERTY

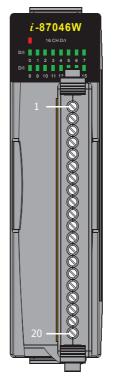
■ Dimensions (Units: mm) —



Wire Connections _____

Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
	Close to GND (+1 Vpc Max.)	OPEN (+4 Vpc ~ +30 Vpc)
Dry Contact	DIX (B)GND	X D DIX (B)GND

Pin Assignments ____



Terminal No.		Pin Assignment
T n	01	DI0
	02	DI1
	03	DI2
	04	DI3
	05	DI4
	06	DI5
, n	07	DI6
	08	DI7
	09	DI8
7 0	10	DI9
, C = 1	11	DI10
	12	DI11
	13	DI12
\	14	DI13
	15	DI14
	16	DI15
	17	GND
7 0	18	GND
	19	GND
	20	GND

Ordering Information

I-87046W-G

16-channel Non-Isolated Digital Input Module for Long Distance Measurement with 16-bit Counters (Gray Cover) (RoHS)

Accessories .



SG-770 CR

7 channel differential or 14 channel single-ended surge protector (RoHS) $\,$

I-87046W