







I-7063AD

8-channel Isolated Digital Input and 3-channel AC SSR Output Module







I-7065AD

4-channel Isolated Digital Input and 5-channel AC SSR Output Module

■ I-7063A(D) ■ 8 Digital Input channels and 3 AC SSR Output channels ■ I-7065A(D) ■ 4 Digital Input channels and 5 AC SSR Output channels ■ Form A AC Solid State Relay Output ■ No Arcing, No Bounce, and No Switching Noise ■ Sink- and Source-type for Digital Input ■ Digital Input Channels can be used as 16-bit Counters ■ Configurable Power-on Value Settings ■ Configurable Safe Value Settings ■ Dual Watchdog ■ Wide Operating Temperature Range: -25 to +75°C









■ Introduction

The I-7063A module provides 8 digital input channels and 3 AC SSR(Solid State Relay) output channels, and the I-7065A provides 4 digital input channels and 5 AC SSR output channels. All digital input channels can be used as 16-bit counters. In addition, the digital input channels can be selected either as sink- or source-type via wire connections. In comparison to electromechanical relays, SSR technology provides a faster response time and greater electrical endurance. The integration of AC SSR technology also eliminates potential for arcing, bounce, and switching noise. The I-7063AD provides 11 LED indicators and the I-7065AD provides 9 LED indicators that can be used to monitor the status of the digital input and SSR output. There are also options for configuring power-on and safe values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise protection capabilities in industrial environments.

■ System Specifications

Model	I-7063A	I-7063AD	I-7065A	I-7065AD	
Communication	Communication				
Interface	RS-485				
Bias Resistor	No (Usually supplied by the RS-485 Master. Alternatively, add a tM-SG4 or SG-785.)				
Format	(N, 8, 1), (N,	8, 2), (E, 8, 1),	(0, 8, 1)		
Baud Rate	1200 to 1152	00 bps			
Protocol	DCON				
Dual Watchdog	Yes, Module (1.6 Seconds), Co	ommunication (Programmable)	
LED Indicators/Display					
System LED Indicator	Yes, 1 as Pow	er/Communicat	ion Indicator		
I/O LED Indicators	-	Yes, 11 as Digital Input/ Relay Output Indicators	1	Yes, 9 as Digital Input/ Relay Output Indicators	
7-segment LED Display	-				
Isolation					
Intra-module Isolation, Field-to-Logic	3750 VDC				
EMS Protection					
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal				
155 (126 01000 12)	±8 kV Air for Random Point				
EFT (IEC 61000-4-4)	±2 kV for Pov	ver Line			
Surge (IEC 61000-4-5)	-				
Power					
Reverse Polarity Protection	Yes				
Input Range	+10 ~ +30 VDC				
Consumption	0.5 W	1.0 W	0.6 W	1.0 W	
Mechanical					
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm				
Installation	DIN-Rail or Wall Mounting				
Environment	vironment				
Operating Temperature	-25 to +75°C				
Storage Temperature	-40 to +85°C				
Humidity	10 to 95% RH, Non-condensing				

Applications

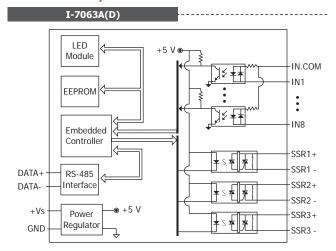
- Building AutomationFactory Automation
- Machine AutomationRemote Maintenance
- Remote Diagnosis
- Testing Equipment

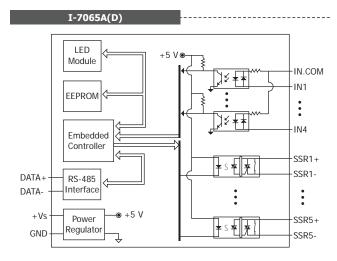
■ I/O Specifications

	= 1/0 Specifications				
Model			I-7063AD	I-7065A	I-7065AD
AC Solid	AC Solid State Relay Output				
Channels		3		5	
Relay Type		AC-SSR (Form A)			
	Operating Voltage Range	24 ~ 265 VAC			
	Max. Load Current	1 A			
	Leakage Current	1.5 mA			
Form A AC-SSR	Min. Operate Time	1/2 cycle + 1 ms			
	Min. Release Time	1/2 cycle + 1 ms			
	Dielectric Strength	2500 VAC			
	Electrical Endurance	Long Life, No Arcing, No Bounce, No Switching Noise			
Power-on	Value	Yes			
Safe Value		Yes			
Digital In	put/Counter				
Channels		8 4			
T	Dry Contact	-			
Type	Wet Contact	Sink/Source			
Wet	ON Voltage Level	+1 VDC Max.			
Contact	OFF Voltage Level	+4 ~ 30 VDC			
	ON Voltage Level	-			
Dry	OFF Voltage Level	-			
Contact	Effective Distance for Dry Contact	-			
	Max. Count	65535 (16-bit)			
Counters	Max. Input Frequency	100 Hz			
	Min. Pulse Width	5 ms			
Input Imp	Input Impedance		3 kΩ		
Channel-to	Channel-to-Channel Isolation		-		
Overvoltag	Overvoltage Protection		±35 VDC		

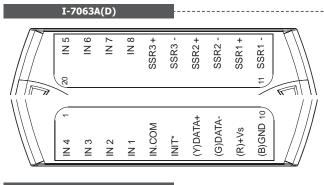
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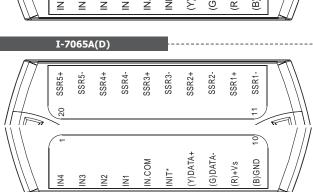
■ Internal I/O Structure



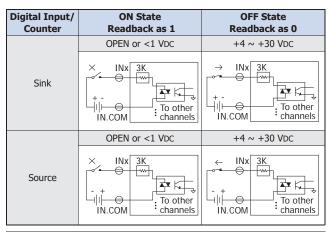


■ Pin Assignments





■ Wire Connections



Output Type	ON State Readback as 1	OFF State Readback as 0		
AC-SSR Output	Load SSRx+	AC X SSRx + SSRx -		

■ Ordering Information

I-7063A CR	8-channel Isolated Digital Input and 3-channel AC SSR Output Module using the DCON Protocol (Blue Cover) (RoHS)	
I-7063AD CR I-7063A with LED Display (Blue Cover) (ROSH)		
I-7065A CR 4-channel Isolated Digital Input and 5-channel AC SSR Output Module using the DCON Protocol (Blue Cover		
I-7065AD CR	I-7065A with LED Display (Blue Cover) (ROSH)	

Accessories

tM-7520U CR	RS-232 to RS-485 Converter (RoHS)
tM-7561 CR	USB to RS-485 Converter (RoHS)
tM-SG4 CR	RS-485 Bias and Termination Resistor Module (RoHS)

	3	I-7514U CR	4-channel RS-485 Hub (RoHS)
SG-770 CR		SG-770 CR	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)
	III III	SG-3000 Series	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers

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