



I-87024W | I-87024RW

8-channel Isolated Digital Input Module with 16-bit Counter

Features

- Current Output or Voltage Output
- Power-on Value
- Safe Value
- Dual Watchdog Timer
- Short Curcuit Proection
- 3000 VDC Intra-module Isolation
- 4 kV ESD Protection

Introduction

The I-87024W is a 4-channel analog output module that provides either current or voltage output. There are options to set Power-on and safe values. The I-87024W also features 4 kV ESD protection and 3000 VDC intra-module isolation.
The I-87024RW is a 4-channel analog output module. The programmable AO channels provide 14-bit resolution and support an output range of 0 ~ +5 V, ±5 V, 0 ~ +10 V, ±10 V, 0 ~ +20 mA, or +4 ~ +20 mA. The I-87024RW has the same specifi cations as the I-87024W, but the output quality is improved in a harsh environments.

System Specifications

Model		I-87024W	I-87024RW
COM Port			
Ports		RS-485	
Data Format		N, 8, 1	
Baud Rate		1200 ~ 115200 bps	
Protocol		DCON	
CPU Module			
Dual Watchdog Timer		Module (1.6 Seconds), Communication (Programmable)	
LED Indicators			
System LED Indicator		1	
Isolation			
Intra-module Isolation, Field-to-Logic		3000 VDC	
EMS Protection			
ESD (IEC 61000-4-2)		±4 kV Contact for Each port, ±8 kV Air for Random Poin	
Power			
Consumption	Typical	0.3 W Max.	1.1 W Max.
	Maximum	2.8 W (4-ch Output, 20 mA at 10 V	3.2 W (4-ch Output, 20 mA at 10 V
Mechanical			
Dimensions (W x L x H)		114 mm × 30 mm × 85 mm	
Environment			
Operating Temperature		-25 ~ +75 °C	
Storage Temperature		-40 ~ +85 °C	
Humidity		10 ~ 95 % RH, Non-condensing	

I/O Specifications

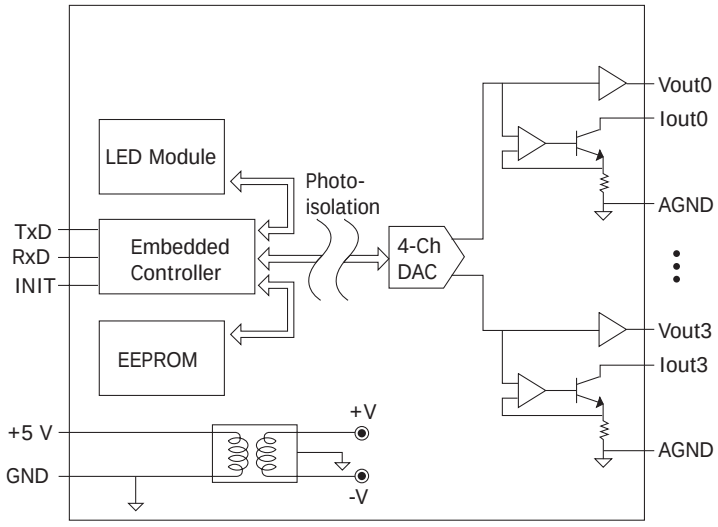
Model		I-87024W	I-87024RW
Analog Output			
Channels		4	
Wiring		Sink	
Range		0 ~ +5 VDC, ±5 VDC, 0 ~ +10 VDC, ±10 VDC, 0 ~ +20 mA, +4 ~ +20 mA	
Resolution		14-bit	
Accuracy		±0.1% of FSR	
Zero Drift	Voltage	±30 μV/°C	
	Current	±0.2 μA/°C	
Span Drift		±20 ppm/°C	
Analog Output Response Time		10 ms per channel	
Programmable Output Slope		0.125 to 2048 mA/second	
		0.0625 to 1024 V/second	
Output Capacity	Voltage	10 VDC @ 5 mA	
	Current	External +24 VDC @ 1050 Ω	
Short Curcuit Proection		Yes	
Power-on Value		Yes	
Safe Value		Yes	

Applications

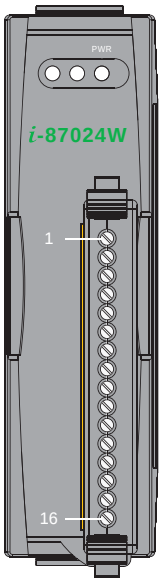
- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Internal I/O Structure

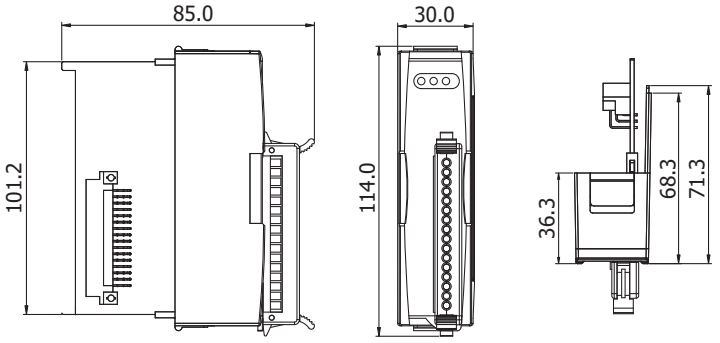


Pin Assignments



Terminal No.	Pin Assignment
01	Iout0
02	AGND
03	Iout1
04	AGND
05	Iout2
06	AGND
07	Iout3
08	AGND
09	Vout0
10	AGND
11	Vout1
12	AGND
13	Vout2
14	AGND
15	Vout3
16	AGND

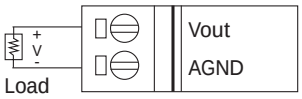
Dimensions (Unit: mm)



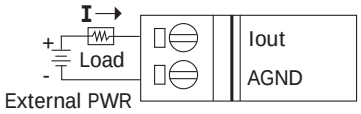
Left View | Front View | Top View

Wire Connections

Voltage Output



Current Output



Accessories

	**SG-770 CR**	7/14-channel Different/Single-ended Surge Protector (RoHS)

Ordering Information

I-87024W-G CR	4-channel 14-bit Analog Output Module (RoHS)
I-87024RW-G CR	4-channel 14-bit Analog Output Module with RF Immunity (RoHS)

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000