

I-9024U | I-9028U

4 Channel Isolated Analog Output Module

8 Channel Isolated Analog Output Module

Features

- 4/8 Channel Voltage/Current Output
- Source Current Output Wiring
- Individual Channel Configuration
- Short Circuit Protection
- Power-on Value
- Safe Value
- 4 kV ESD Protection
- 3000 VDC Intra-module Isolation

Introduction

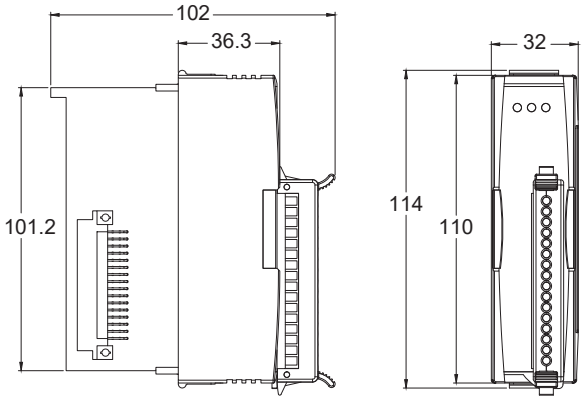
The I-9024U and I-9028U are source type analog output modules, offering 4 and 8 single-ended analog output channels. Each channel can be programmed to an individual output range of 0 ~ 5 V, ±5 V, 0 ~ 10 V, ±10 V, +4 ~ +20 mA or 0 ~ +20 mA. Open wire detection is provided for +4 ~ +20 mA output. Options for configuring power-on and safe values are included, together with qualification for 4 kV ESD protection as well as 3000 VDC intramodule isolation.

Application

- Data Acquisition System
- Vibration Analysis
- Process Monitoring and Control
- Factory Automation

Dimensions (Units: mm)

I-9024U/I-9028U



Left View | Front View

System Specifications

Model	I-9024U	I-9028U
LED Display		
System LED Indicator	1 LED as Power Indicator	
Isolation		
Intra-module Isolation, Field-to-Logic	2500 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal	
Power		
Consumption	2 W Max.	
Mechanical		
Dimensions (W x L x H)	31 mm x 129 mm x 114 mm	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 90 % RH, Non-condensing	

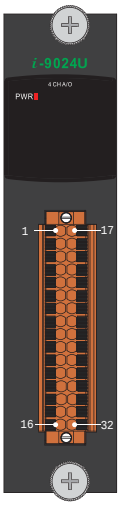
I/O Specifications

Model	I-9024U	I-9028U
Analog Output		
Channels	4	8
Current Output Wiring	Source	
Resolution	16-bit	
Range	0 ~ +5 VDC, ±5 VDC, 0 ~ +10 VDC, ±10 VDC, 0 ~ +20 mA, +4 ~ +20 mA	
Accuracy	±0.02% of FSR	
Zero Drift	±0.2 μV/°C	
Span Drift	±25 ppm/°C	
Short Circuit Protection	Yes	
Response Time	105 us per channel	
Programmable Output Slope	Voltage: 0.5 V/us Current: 0.024 mA/us	
Power-on Value	Yes	
Safe Value	Yes	
Isolation		
Reverse Polarity Protection	Yes	
Powered from Terminal Block	15 ~ 30 VDC	
Isolation	3000 VDC	

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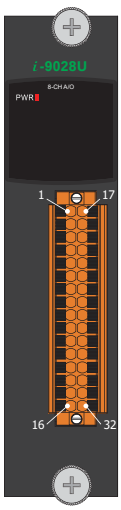
Pin Assignments

I-9024U



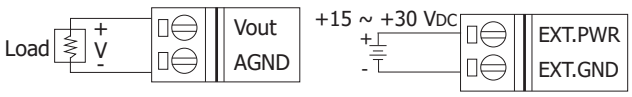
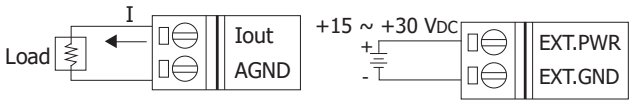
Pin Assignment	Terminal No.		Pin Assignment
Vout0	01	17	Vout1
Iout0	02	18	Iout1
AGND	03	19	AGND
Vout2	04	20	Vout3
Iout2	05	15	Iout3
AGND	06	16	AGND
-	07	17	-
-	08	18	-
-	09	19	-
-	10	20	-
-	11	21	-
-	12	22	-
EXT.PWR	13	23	EXT.PWR
EXT.PWR	14	24	EXT.PWR
EXT.GND	15	25	EXT.GND
EXT.GND	16	26	EXT.GND

I-9028U



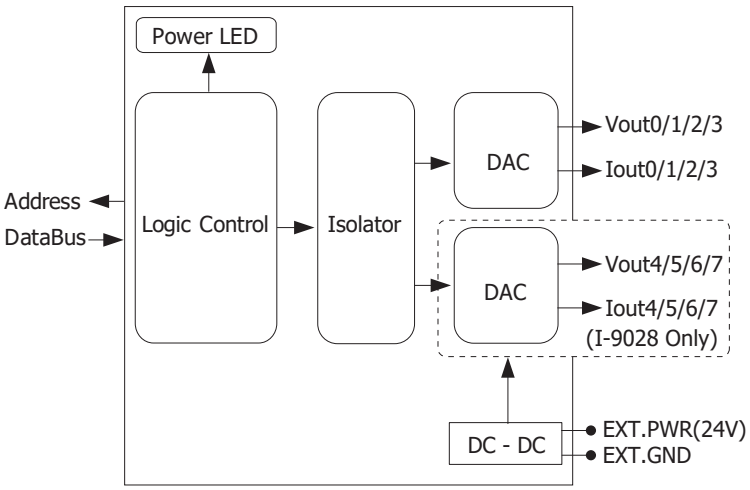
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Iout2	05	15	Iout3
AGND	06	16	AGND
Vout4	07	17	Vout5
Iout4	08	18	Iout5
AGND	09	19	AGND
Vout6	10	20	Vout7
Iout6	11	21	Iout7
AGND	12	22	AGND
EXT.PWR	13	23	EXT.PWR
EXT.PWR	14	24	EXT.PWR
EXT.GND	15	25	EXT.GND
EXT.GND	16	26	EXT.GND

Wire Connections

Voltage Output Wiring	Current Output Wiring
	

Internal I/O Structure

I-9024U/I-9028U



Accessories

	**SG-770 CR**	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)

Ordering Information

I-9024U CR	4-channel Isolated Analog Output Module (RoHS)
I-9028U CR	8-channel Isolated Analog Output Module (RoHS)

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