



**I-87026**      **I-87026-G**  
2-ch, 16-bit Isolated AO Module

### Features

- 2-channel Analog Output
- Software Selectable Current or Voltage Output
- Power-on Value Setting
- Safe Value Setting
- Open Wire Detection for Current Output
- Readback Voltage or Current
- 2 kV Channel to Channel Isolation
- 3000 Vdc Intra-module Isolation
- Programmable Output Slope
- Dual Watchdog



### Introduction

The I-87026 is a 16-bit, 2-channel Analog Output module that is designed for both voltage and current output using the DCON protocol. The I-87026 features 3000 V<sub>DC</sub> intra-module isolation, and the power source for the current output can be selected as either internal or external via a jumper. Options are also provided to allow power-on and safe values to be set.

### Applications

- Industrial Automation
- Building Automation
- Semiconductor Fabrication
- Industrial Machinery
- Food and Beverage Systems
- Control Systems

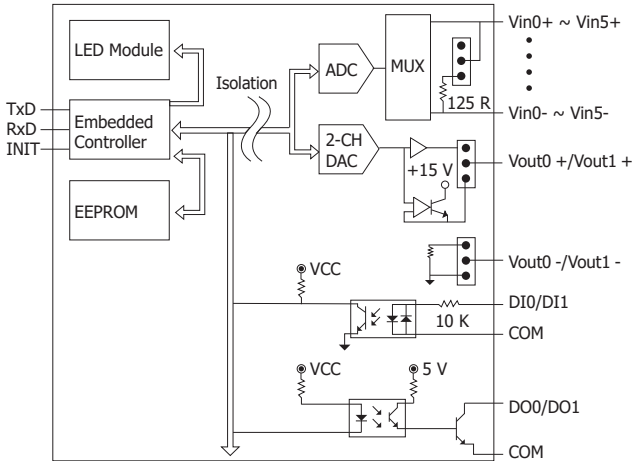
### System Specifications

CPU Module	
Watchdog Timer	Yes, Module (1.6 Seconds), Communication (Programmable)
Isolation	
Intra-module Isolation	3000 Vdc
LED Indicators	
Status	1 x Power and Communication 16 x I/O
COM Ports	
Baud Rate	115200 bps
Data Format	N, 8, 1
Protocol	DCON
Power	
Power Consumption	2.6 W Max.
Mechanical	
Dimensions (W x L x H)	31 mm x 116 mm x 88 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +75 °C
Humidity	5 ~ 95% RH, Non-condensing

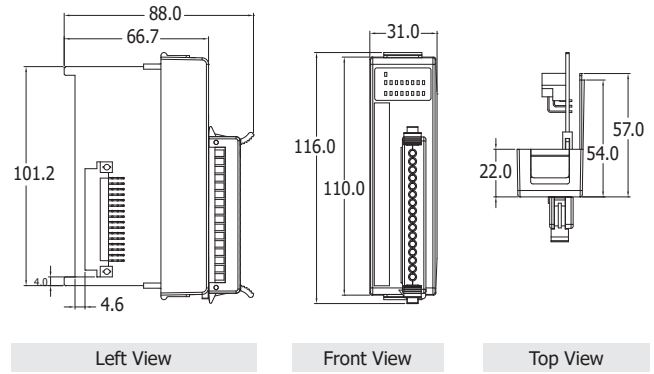
### I/O Specifications

Analog Input	
Type	Voltage Current
Analog Output	
Channels	2
Type	Voltage Current
Range	0 ~ +10 V 0 ~ +20 mA +4 ~ +20 mA
Resolution	16-bit
Accuracy	±0.1% of FSR
Short Circuit Protection	Yes
DA Output Response Time	10 ms per Channel
Programmable Output Slope	Voltage: 0.0625 ~ 1024 V/Second Current: 0.125 ~ 2048 mA/Second
Open Wire Detection	Yes, +4 ~ +20 mA
Voltage Output Capability	10 V @ 10 mA
Current Load Resistance	Internal Power: 500 Ω External Power: 1050 Ω
Channel-to-Channel Isolation	Yes, 2 kV
Power on Value	Yes
Safe Value	Yes
Digital Input/Counter	
Frequency	100 Hz

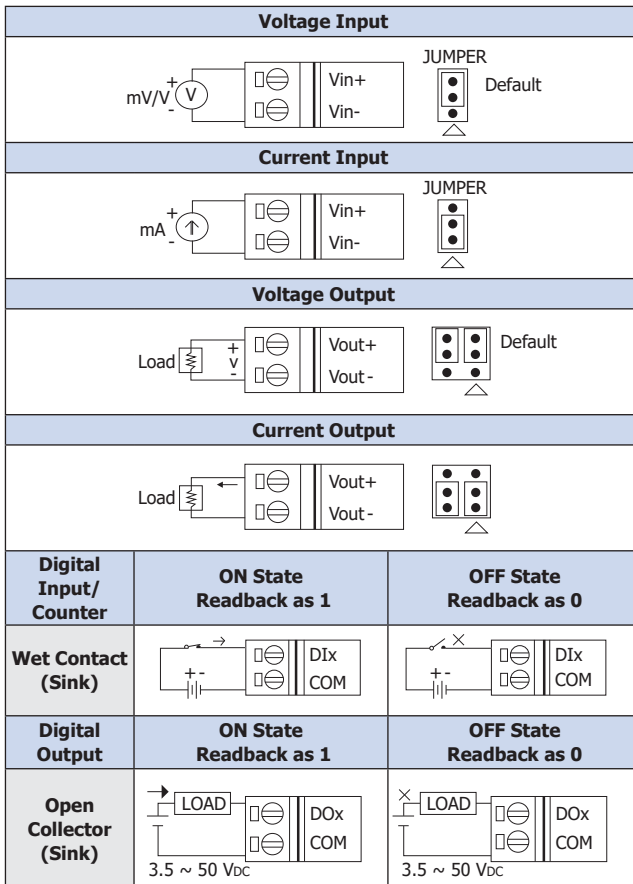
## Internal I/O Structure



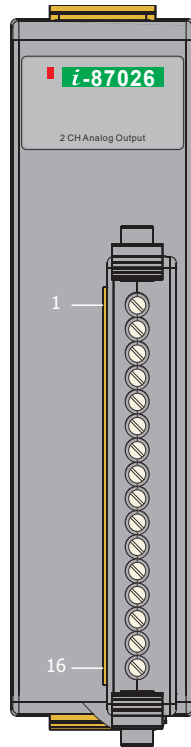
## Dimensions (Units: mm)



## Wire Connections



## Pin Assignments



Terminal No.	Pin Assignment
01	-
02	-
03	-
04	-
05	-
06	-
07	Vout0+
08	Vout0-
09	Iout0+
10	Iout0-
11	ExtPWR0
12	Vout1+
13	Vout1-
14	Iout1+
15	Iout1-
16	ExtPWR1

## Ordering Information

<b>I-87026 CR</b>	2-ch, 16-bit Channel-to-ch Isolated AO Module (Blue Cover) (RoHS)
<b>I-87026-G CR</b>	2-ch, 16-bit Channel-to-ch Isolated AO Module (Gray Cover) (RoHS)