

# i-87K **Serial Modules** SERIES

**87K Digital I/O Modules Selection Guide**

Module		I-87040	I-87041	I-87051	I-87052	I-87053
Digital Input Channels		32 Isolation	–	16	8 differential Isolation (5000V)	16 Isolation (3750V)
Digital Output Channels		–	32 (open collector Isolation)	–	–	–
Counter	Channels	32	–	16	8	16
	Input Frequency	100Hz	–	100Hz	100Hz	100Hz
Safe Value		–	Yes	–	–	–
Power-on Preset Value		–	Yes	–	–	–
Dual Watchdog Timer		Yes	Yes	Yes	Yes	Yes
Availability		Y	Y	Y	Y	Y

Module		I-87054	I-87055	I-87057	I-87058
Digital Input Channels		8 Isolation (3750V)	8	–	8 differential Isolation (5000V)
Digital Output Channels		8 (open collector) Isolation (3750V)	8 (open collector Isolation) (3750V)	16 (open collector) Isolation (3750V)	–
Counter	Channels	8	8	–	8
	Input Frequency	100Hz	100Hz	–	100Hz
Safe Value		Yes	Yes	Yes	–
Power-on Preset Value		Yes	Yes	Yes	–
Dual Watchdog Timer		Yes	Yes	Yes	Yes
Availability		Y	Y	Y	Y

# i-87K Serial Modules

## SERIES

I-80000

87K Relay Modules Selection Guide

Module	I-87063	I-87064	I-87065	I-87066	I-87068	I-87069
Digital Input Channels	4 Isolation (3750V)		-	-	-	-
Digital Output Channels	4 Channel Relay Form C x 4	8 Channel Relay Form A AC 250V/5A DC 30V/5A	8 Channel SSR AC-type Relay Form A 24 to 265 Vrms@1.0Arms	8 Channel SSR DC-type Relay Form A DC: 3-30VDC @1.0A	8 Channel Relay Form A x 4 Form C x 4	8 Channel PhotoMos Relay Form A x 8
Counter	Channels	4	-	-	-	-
	Input Frequency	100Hz	-	-	-	-
Safe Value	Yes	Yes	Yes	Yes	Yes	Yes
Power-on Preset Value	Yes	Yes	Yes	Yes	Yes	Yes
Dual Watchdog Timer	Yes	Yes	Yes	Yes	Yes	Yes
Availability	Y	Y	Y	Y	Y	Y

## i-87K Serial Modules

### SERIES

#### 87K Digital Modules

I-87040



I-87040-G



#### I-87040 / I-87040-G (Gray color)

##### 32-channel Digital Input Module

- Digital input channels: 32
- 3750V isolation ( External power)
- Digital input level:  
On state: +3.5V~30V  
Off state: +1V max.
- Power Consumption: 1W

I-87041



I-87041-G



#### I-87041 / I-87041-G (Gray color)

##### 32-channel Digital Output Module

- Digital Output channels: 32
- Open-collector Output: 100 mA/ channel
- Load Voltage : 5VDC to 30VDC
- Isolation Voltage : 3750Vrms
- Power consumption: 1W

I-87051



I-87051-G



#### I-87051 / I-87051-G (Gray color)

##### 16-channel Digital Input Module

- Digital input channels: 16
- Digital input level:  
On state: +1V max.  
Off state: +3.5V~30V
- Power Consumption: 0.4W

# i-87K Serial Modules

## SERIES

I-80000

### 87K Digital Modules

I-87052



I-87052-G



#### I-87052 / I-87052-G (Gray color)

##### 8-channel Isolated Digital Input Module

- Digital input channels: 8
- Differential input
  - On state: +3.5V~30V
  - Off state: +1V max.
- Isolation: 5000 Vrms
- Power Consumption: 0.3W

I-87053



I-87053-G



#### I-87053 / I-87053-G (Gray color)

##### 16-channel Isolated Digital Input Module

- Digital input channels: 16
- Single-ended input
  - On state: +3.5V~30V
  - Off state: +1V max.
- Isolation: 3750 Vrms
- Power Consumption: 0.3W

I-87054



I-87054-G



#### I-87054 / I-87054-G (Gray color)

##### 16-channel Isolated Digital I/O Module

- Digital input channels: 8
  - On state: +3.5V~30V
  - Off state: +1V max.
- Digital output channels: 8
  - O.C. output: 375mA/channel, 30V
- Power Consumption: 0.3W

## i-87K Serial Modules

### SERIES

#### 87K Digital Modules

I-87055



I-87055-G



##### I-87055 / I-87055-G (Gray color)

##### 16-channel Digital I/O Module

- Digital input channels: 8  
On state: +1V max.  
Off state: +3.5V~30V
- Digital output channels: 8  
O.C. output: 100mA/channel
- Power Consumption: 0.5W

I-87057



I-87057-G



##### I-87057 / I-87057-G (Gray color)

##### 16-channel Isolated Open Collector Output Module

- Digital output channels: 16  
O.C. output: 100mA/channel, 30V
- Isolation: 3750 Vrms
- Power Consumption: 0.3W

I-87058



I-87058-G



##### I-87058 / I-87058-G (Gray color)

##### 8-channel Isolated Digital Input Module

- Digital input channel : 8 differential
- Input Voltage  
Logical High : AC/DC 80V min.  
Logical Low : AC/DC 30V max.
- Maximum Input Voltage :AC/DC 250V
- AC frequency : 45Hz(min.)
- Isolation :5000Vrms
- Power Consumption: 0.3W

#### 87K Relay Modules

I-87063



I-87063-G



##### I-87063 / I-87063-G (Gray color)

##### 8-channel Isolated Digital I/O Module

- Digital input channels: 4  
Differential Input
- Digital output channels: 4  
Form C  
AC: 0.6A @125Vac, 2A @30Vdc
- Power Consumption: 0.3W

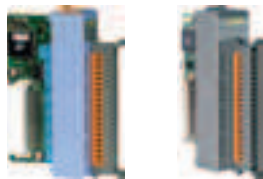
# i-87K Serial Modules

## SERIES

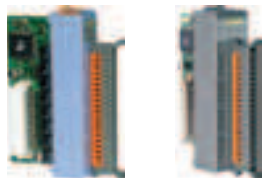
I-80000

### 87K Digital Modules

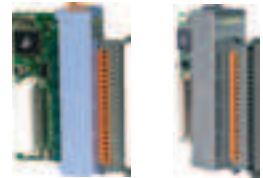
I-87064 I-87064-G



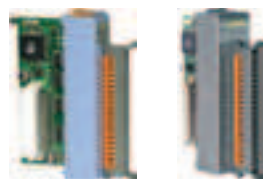
I-87065 I-87065-G



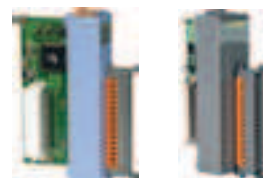
I-87066 I-87066-G



I-87068 I-87068-G



I-87069 I-87069-G



**I-87064 / I-87064-G (Gray color)**  
**8-channel Power Relay Output Module**

**I-87065 / I-87065-G (Gray color)**  
**8-channel SSR-AC Output Module**

**I-87066 / I-87066-G (Gray color)**  
**8-channel SSR-DC Output Module**

- Digital Output channels: 8
- Form A (Normal open)
- Contact Rating:
  - I-87064 – AC:250V @5A DC:30V @5A  
Power Consumption: 2.4W
  - I-87065 – AC: 24~265Vrms @1.0 Arms;  
leakage current:1.5mArms max.  
Power Consumption: 1W
  - I-87066 – DC: 3~30VDC @1.0A  
leakage current:0.1mA max.  
Power Consumption: 1W

**I-87068 / I-87068-G (Gray color)**  
**8-channel Relay Output Module**

- Digital output channels: 8
- Form C x 4; Form A x 4
- Contact Rating: AC: 120VAC @0.5A  
DC: 30VDC @1A
- Power Consumption: 2.4W

**I-87069 / I-87069-G (Gray color)**  
**8-channel Relay Output Module**

- Digital output channels: 8
- Form A Photo Mos relay
- Photo Mos Relay
- Load voltage: 350V (Peak AC)
- Continuous load current: 0.13A
- Power Consumption: 0.5W