

i-8000 Parallel I/O Modules

SERIES

i-8000

8K Digital I/O Module Selection Guide

Model	I-8037	I-8040	I-8041	I-8042	I-8048	I-8050	I-8051
Digital input Channels	–	32	–	16	8 with Interrupt	Can be up to 16	16
Digital Output Channels	16 open source isolation 3750V	–	32	16	–	Can be up to 16	–
LED Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Safe Value	Yes	–	Yes	Yes	–	–	–
Power-on Preset Value	Yes	–	Yes	Yes	–	–	–
Dual Watchdog	–	–	–	–	–	–	–
Availability	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Model	I-8052	I-8053	I-8054	I-8055	I-8056	I-8057	I-8058
Digital input Channels	8 isolation 5000V differential	16 isolation 3750V	8 isolation 3750V	8	–	–	8 isolation 3750V AC/DC Max.250V Input
Digital Output Channels	–	–	8 open collector isolation 3750V	8 open collector	16 open collector	16 open-collector isolation 3750V	–
LED Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Safe Value	–	–	Yes	Yes	Yes	Yes	–
Power-on Preset Value	–	–	Yes	Yes	Yes	Yes	–
Dual Watchdog	–	–	–	–	–	–	–
Availability	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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8K Digital Modules

I-8037



I-8037-G



I-8037 / I-8037-G (Gray color)

16-channel Isolated Open-source Output Module

- Digital output channels : 16
- Digital output : Open-source
- Digital output : Output 100mA / 30V(Max)
- Isolation: 3750 Vrms
- Power consumption: 0.5W

I-8040



I-8040-G



I-8040 / I-8040-G (Gray color)

32-channel Isolated Digital Input Module

- Digital input channels: 32
- 3750V isolation (External power)
- 3000V isolation (Internal power)
- Input Voltage: 3.5V~30V
- Power consumption: 0.3W

I-8041



I-8041-G



I-8041 / I-8041-G (Gray color)

32-channel Isolated Digital Output Module

- Digital output channels: 32
- 3750V isolation (External power)
- Open-collector Output: 125mA/channel
- Power consumption: 1.7W

I-8042



I-8042-G



I-8042 / I-8042-G (Gray color)

16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module

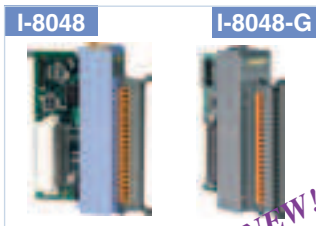
- Digital Input channels: 16
- Digital Output channels: 16
- Other spec. are similar to I-8040 and I-8041
- Power consumption: 1.5W

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i-8000

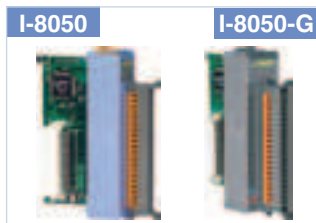
8K Digital Modules



I-8048 / I-8048-G (Gray color)

8-channel Digital Input with Interrupt Module

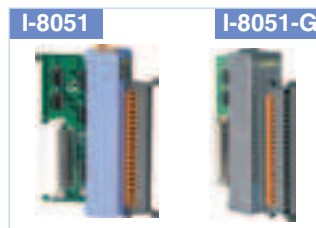
- Parallel I/O Module
- Digital Input Channels: 8
- Input Signal: isolated or non-isolated by Jumper
- Logic High level:
Isolated: 4V ~30V
Non-Isolated TTL: 2V ~ 5V
- Logic Low level:
Isolated: 0 ~1V
Non-Isolated TTL: 0V~ 0.8V
- Isolation Voltage:2000V
- Built-in isolated power supply:5V,200mA max.
- Rising/Falling edge interrupt programmable
- LED indicator for each channel of digital input
- Power Consumption: 0.8W



I-8050 / I-8050-G (Gray color)

16-channel Universal Digital I/O Module

- Digital I/O channels: 16
- I/O Type: Selectable by programmed
- Digital Input: +2V(0); +4V~30V(1)
- Digital Output: Open-collector
Output: 100mA/channel
- Power consumption: 1W



I-8051 / I-8051-G (Gray color)

16-channel Digital Input Module

- Digital Input channels: 16
- Digital Input level:
Logical level 0: +1V max.
Logical level 1: +3.5V~30V
- Power consumption: 0.8W

i-8000 Parallel I/O Modules

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8K Digital Modules

I-8052



I-8052-G



I-8052 / I-8052-G (Gray color)

8-channel Isolated Digital Input Module

- Digital input channels: 8
- Differential input:
 - Logical level 0: +1V max.
 - Logical level 1: +3.5V~30V
- Isolation: 5000 Vrms.
- Power consumption: 0.8W

I-8053



I-8053-G



I-8053 / I-8053-G (Gray color)

16-channel Isolated Digital Input Module

- Digital input channels: 16
- Single-ended input:
 - Logical level 0: +1V max.
 - Logical level 1: +3.5V~30V
- Input resistance: 3K Ω , 1/4W
- Power consumption: 0.8W

I-8054



I-8054-G



I-8054 / I-8054-G (Gray color)

16-channel Isolated Digital I/O Module

- Digital input channels: 8
 - Logical level 0: +1V max.
 - Logical level 1: +3.5V~30V
- Digital output channels: 8
 - O.C. output: 375mA/channel, 30V
- Power consumption: 1W

I-8055



I-8055-G



I-8055 / I-8055-G (Gray color)

16-channel Digital I/O Module

- Digital input channels: 8
 - Logical level 0: +1V max.
 - Logical level 1: +3.5V~30V
- Digital output channels: 8
 - O.C. output: 125mA/channel
- Power consumption: 0.5W

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8K Digital Modules

I-8056



I-8056-G



I-8056 / I-8056-G (Gray color) 16-channel Non-isolated Open-collector Output Module

- Digital output channels: 16
- O.C. output: 125mA/channel, 30V
- Power consumption: 0.7W

I-8057



I-8057-G



I-8057 / I-8057-G (Gray color) 16-channel Isolated Open-collector Output Module

- Digital output channels: 16
- O.C. output: 125mA/channel, 30V
- Isolation: 3750 Vrms
- Power consumption: 0.5W

I-8058



I-8058-G



I-8058 / I-8058-G (Gray color) 8-channel Isolated Digital Input Module

- Digital input channels: 8
- Input type: differential
- Input Voltage: Logical High: AC/DC 80V mini
Logical Low: AC/DC 30V max.
- Maximum Input voltage: AC/DC 250V
- Operating frequency: 1KHz(max.)
- Isolation: 3750 Vrms
- Power consumption: 0.8W