

**ADAM-4050**  
**ADAM-4052**  
**ADAM-4053**

**Digital I/O Module**  
**Isolated Digital Input Module**  
**16-Channel Digital Input Module**



## ADAM-4050 Digital I/O Module

### Digital Input

- **Channels:** 7  
Logic level 0: +1 V max.  
Logic level 1: +3.5 V ~ +30 V  
Pull up current: 0.5 mA,  
10 kW resistor to +5 V

### Digital Output

- **Channels:** 8  
Open collector to 30 V,  
30 mA max. load  
Power dissipation: 300 mW

### Built-in Watchdog Timer

### Power

- **Power requirements:**  
Unregulated +10 ~ +30 V<sub>DC</sub>
- **Power consumption:** 0.4 W

## ADAM-4052 Isolated Digital Input Module

### Digital Input

- **Channels:** 8  
Six fully independent isolated channels.  
Two isolated channels with common  
ground
- **Digital input level:**  
Logic level 0: +1 V max.  
Logic level 1: +3 ~ +30 V
- **Isolation voltage:** 5000 V<sub>RMS</sub>
- **Input resistance:** 3 kΩ/0.5 W

### Built-in Watchdog Timer

### Power

- **Power requirements:**  
Unregulated +10 ~ +30 V<sub>DC</sub>
- **Power consumption:** 0.4 W

## ADAM-4053 16-Channel Digital Input Module

### Digital Input

- **Channels:** 16
- **Digital input level**  
**Dry contact:**  
Logic level 0: Close to GND  
Logic level 1: Open  
**Wet contact:**  
Logic level 0: +2 V max.  
Logic level 1: +4 V ~ +30 V
- **Effective distance (dry contact only):**  
500 m max.

### Built-in Watchdog Timer

### Power

- **Power requirements:**  
Unregulated +10 ~ +30 V<sub>DC</sub>
- **Power consumption:** 1.0 W