

# ADAM-5024 ADAM-5050 ADAM-5051/D/S

4-ch Analog Output Module

16-ch Universal Digital I/O Module

16-ch Digital Input Module



ADAM-5024

RoHS  
COMPLIANT  
2002/95/EC

CE

FCC

FM

APPROVED



ADAM-5050

RoHS  
COMPLIANT  
2002/95/EC

CE

FCC

FM

APPROVED



ADAM-5051  
ADAM-5051D  
ADAM-5051S

RoHS  
COMPLIANT  
2002/95/EC

CE

FCC

FM

APPROVED

## Specifications

### General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 2.9 W (max.)

### Analog Output

- **Accuracy**  $\pm 0.1\%$  of FSR for current output  
 $\pm 0.2\%$  of FSR for voltage output
- **Channels** 4
- **Current Load Resistor** 0 ~ 500  $\Omega$  (source)
- **Output Type** mA, V
- **Output Range** 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V
- **Programmable Output Slope** 0.125 ~ 128.0 mA/sec.  
0.0625 ~ 64.0 V/sec.
- **Resolution** 12-bit
- **Resolution**  $\pm 0.015\%$  of FSR
- **Span Temperature Coefficient**  $\pm 25$  PPM/ $^{\circ}\text{C}$
- **Zero Drift** Voltage:  $\pm 30$   $\mu\text{V}/^{\circ}\text{C}$   
Current:  $\pm 0.2$   $\mu\text{A}/^{\circ}\text{C}$

### Protection

- **Isolation Voltage** 3,000 V<sub>DC</sub>

## Ordering Information

- **ADAM-5024** 4-ch Analog Output Module

## Specifications

### General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 1.2 W (max.)

### Digital I/O

- **Channels** 16
- **Channel I/O Type** Bit-wise selectable by DIP switch
- **Digital Input** Dry Contact:  
Logic level 0: close to GND  
Logic level 1: open  
Wet Contact:  
Logic level 0: 2 V max.  
Logic level 1: 4 ~ 30 V
- **Digital Output** Open collector to 30 V,  
100 mA and 450 mW max.  
load
- **Power Dissipation** 300 mW for each channel

## Ordering Information

- **ADAM-5050** 16-ch Universal Digital Input/Output Module

## Specifications

### General

- **Certification** CE
- **Connectors** ADAM-5051/5051D: 1 x Plug-in screw terminal (# 14 ~ 22 AWG)  
ADAM-5051S: 1 x Plug-in screw terminal (# 14 ~ 28 AWG)
- **Enclosure** ABS+PC
- **LED Indicators** ADAM-5051D On: Input logic level 1  
Input floating  
Off: Input logic level 0  
ADAM-5051S On: Active  
Off: Inactive
- **Power Consumption** ADAM-5051: 0.53 W (max.)  
ADAM-5051D: 0.84 W (max.)  
ADAM-5051S: 0.8 W (max.)

### Digital Input

- **Circuit Type** Pull-up current: 0.5 mA (Source Type) -only for ADAM-5051/5051D
- **Channels** 16
- **Input Voltage** ADAM-5051/5051D: 30 V max  
ADAM-5051S: 50 V max
- **Logic Level** ADAM-5051/5051D Logic level 0: 1 V max.  
Logic level 1: 3.5 ~ 30 V  
ADAM-5051S Logic level 0: 3 V max.  
Logic level 1: 10 ~ 50 V

### Protection (Only for ADAM-5051S)

- **Optical Isolation** 2,500 V<sub>DC</sub>
- **Overvoltage Protection** 70 V<sub>DC</sub>

## Ordering Information

- **ADAM-5051** 16-ch Digital Input Module
- **ADAM-5051D** 16-ch Digital Input Module w/ LED
- **ADAM-5051S** 16-ch Isolated Digital Input Module w/ LED