

# Модули дискретного ввода/вывода серии ADAM-505 X, ADAM-506 X

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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Архангельск (8182)63-90-72  
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# 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



## 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/ $^{\circ}$ C
- **Zero Drift** Voltage:  $\pm 30$   $\mu$ V/ $^{\circ}$ C  
Current:  $\pm 0.2$   $\mu$ A/ $^{\circ}$ C

### Protection

- **Isolation Voltage** 3,000  $V_{DC}$

## 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  $V_{DC}$
- **Overvoltage Protection** 70  $V_{DC}$

## 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

# ADAM-5052

# ADAM-5053S

# ADAM-5055S

8-ch Isolated Digital Input Module

32-ch Isolated Digital Input Module

16-ch Isolated Digital I/O Module with LED



## Specifications

### General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 0.27 W (max.)

### Digital Input

- **Channels** 8
- **Input Resistance** 3 k $\Omega$ /0.5 W
- **Logic Level** Logic level 0: 1 V max  
Logic level 1: 3.5 ~ 30 V

### Protection

- **Isolation Voltage** 5000 V<sub>RMS</sub>

## Ordering Information

- **ADAM-5052** 8-ch Isolated Digital Input Module

## Specifications

### General

- **Certification** CE, FCC class A
- **Connector** 40 pin
- **Enclosure** ABS+PC
- **Power Consumption** 1 W (max.)

### Digital Input

- **Channels** 32
- **Channel I/O Type** DI  
24 V<sub>DC</sub> (Sink/Source)

### Logic Level

- **Wet Contact** Logic level 0: 10 V max  
Logic level 1: 19 ~ 35 V

### Protection

- **Isolation Voltage** 2,500 V<sub>DC</sub>
- **Overvoltage Protection** 35 V<sub>DC</sub>

Note: only for ADAM-5550 & 5560 Series

## Ordering Information

- **ADAM-5053S** 32-ch Digital Input Module
- **ADAM-3920** 20-pin Flat Cable Wiring Board
- **PCL-10220** 40-pin IDC to two 20-pin IDC cable, 1 m

## Specifications

### General

- **Certification** CE
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 28 AWG)
- **Enclosure** ABS+PC
- **LED Indicators** On: Active  
Off: Inactive
- **Power Consumption** 0.68 W (max.)

### Digital I/O

- **Channels** 16
- **Channel I/O Type** 8 DO, 8 DI
- **Digital Input** Dry contact:  
Logic level 0: open  
Logic level 1: close to GND  
Wet contact:  
Logic level 0: 3 V max.  
Logic level 1: 10 ~ 50 V
- **Digital Output** Open collector to 40 V  
200 mA max. load
- **Power Dissipation** Channel : 1 W max.  
Total : 2.2 W  
(8 channels)

### Protection

- **Isolation Voltage** 2,500 V<sub>DC</sub>
- **Overvoltage Protection** 70 V<sub>DC</sub> (DI only)

## Ordering Information

- **ADAM-5055S** 16-ch Isolated Digital I/O Module with LED

# ADAM-5056/D/S

## ADAM-5056SO

## ADAM-5057S

16-ch Digital Output Module  
16-ch Source-type Isolated  
Digital Output Module with LED

32-ch Isolated Digital Output Module



### Specifications

#### General

- **Certification** CE, FCC class A (ADAM-5056S only)
- **Connectors**
  - ADAM-5056/5056D 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
  - ADAM-5056S 1 x Plug-in screw terminal (# 14 ~ 28 AWG)
- **Enclosure** ABS+PC
- **LED Indicators**
  - ADAM-5056D On: Output logic level 1  
Off: Output logic level 0
  - ADAM-5056S On: Active  
Off: Inactive
- **Power Consumption**
  - ADAM-5056: 0.53 W (max.)
  - ADAM-5056D: 0.84 W (max.)
  - ADAM-5056S: 0.6 W (max.)

#### Digital Output

- **Channels** 16
- **Digital Output**
  - ADAM-5056/5056D Open collector to 30 V, 100 mA max. load
  - ADAM-5056S Open collector to 40 V, 200 mA max. load (sink)
- **Operating Voltage** ADAM-5056/5056D: 30 V max
- **Power Dissipation** 300 mW for each channel
- **Protection (Only for ADAM-5056S)**
  - Optical Isolation 2500 V<sub>DC</sub>
  - Overvoltage Protection 70 V<sub>DC</sub>
  - Power Dissipation 300 mW

### Ordering Information

- **ADAM-5056** 16-ch Digital Output Module
- **ADAM-5056D** 16-ch Digital Output Module with LED
- **ADAM-5056S** 16-ch Sink Type Iso. DO Module w/ LED



### Specifications

#### General

- **Certification** CE, FCC class A
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 28 AWG)
- **Enclosure** ABS+PC
- **LED Indicator** On: Active  
Off: Inactive
- **Power Consumption** 0.6 W (Max.)

#### Digital Output

- **Channels** 16
- **Digital Output** 10 ~ 35 V<sub>DC</sub>
- **Current** 200 mA max. (per channel)  
Channel : 1 W max.
- **Power Dissipation** Total : 2.2 W

#### Protection

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

### Ordering Information

- **ADAM-5056SO** 16-ch Source Type Iso. DO Module w/ LED



### Specifications

#### General

- **Certification** CE, FCC class A
- **Connectors** 1 x 40 pin (wiring line)
- **Enclosure** ABS+PC
- **LED Indicator** On: Active  
Off: Inactive
- **Power Consumption** 1W (Max.)

#### Digital Output

- **Channels** 32
- **Digital Output** Must connect with 2 units of ADAM-3920R

#### Protection

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

#### Relay Spec. of ADAM-3920R

- **Contact Rating** 10A @ 250 V<sub>AC</sub>  
10A @ 30 V<sub>DC</sub>
- **Contact Resistance** 100 mΩ
- **Operation Time** 15 ms
- **Relay Type SPST** (Form A)
- **Release Time** 5 ms max
- **Life Expectancy** 1.7 x 10<sup>6</sup> at related load
- **Insulation Resistance** 1GΩ @ 500 V<sub>DC</sub>
- **Power Input** +24 V<sub>DC</sub>
- **Mounting** DIN 35 rail, wall, rack (with mounting kit)

**Note:** ADAM-5057S must connect with 2 units of ADAM-3920R via PCL-10220

**Note:** only for ADAM-5550 & 5560 Series

### Ordering Information

- **ADAM-5057S** 32-ch Digital Output Module
- **ADAM-3920R** 20-pin Flat Cable Wiring Relay Board
- **PCL-10220** 40-pin IDC to two 20-pin IDC cable, 1m

# ADAM-5060

# ADAM-5069

## 6-ch Relay Output Module

## 8-ch Power Relay Output Module with LED



ADAM-5060



### Specifications

#### General

- **Certification** CE
- **Connectors** 1 x Plug-in screw terminal (# 14 – 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 1.8 W (max.)

#### Relay Output

- **Breakdown Voltage** 500 V<sub>AC</sub> (50/60 Hz)
- **Channels** 2 x form A, 4 x form C
- **Contact Rating**
  - AC: 125 V @ 0.6 A
  - 250 V @ 0.3 A
  - DC: 30 V @ 2 A
  - 110 V @ 0.6 A
- **Insulation Resistance** 1 GΩ min. @ 500 V<sub>DC</sub>
- **Relay Off Time (typical)** 2 ms
- **Relay On Time (typical)** 3 ms
- **Total Switching Time** 10 ms

### Ordering Information

- **ADAM-5060** 6-ch Relay Output Module



ADAM-5069



### Specifications

#### General

- **Certification** CE, FCC class A
- **Connectors** 1 x Plug-in screw terminal (# 14 – 22 AWG)
- **Enclosure** ABS+PC
- **LED Indicator**
  - On: Active
  - Off: Inactive
- **Power Consumption** 2.2 W (max.)

#### Relay Output

- **Breakdown Voltage** 750 V<sub>AC</sub> (50/60 Hz)
- **Channels** 8 x form A
- **Contact Rating**
  - AC: 250 V @ 5 A
  - DC: 30 V @ 5 A
- **Insulation Resistance** 1 GΩ @ 500 V<sub>DC</sub>
- **Relay On Time (typical)** 5 ms
- **Relay Off Time (typical)** 5.6 ms

### Ordering Information

- **ADAM-5069** 8-ch Power Relay Output Module w/ LED

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