

# ADAM-6050

# ADAM-6050W

# ADAM-6051

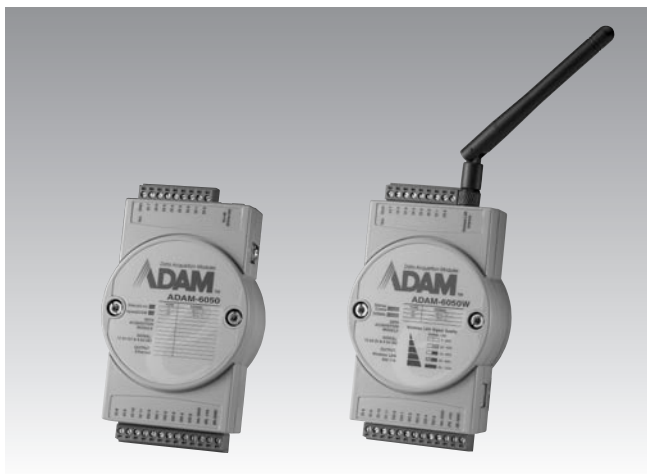
# ADAM-6051W

18-ch Isolated Digital I/O Module

18-ch Wireless Isolated Digital I/O Module

14-ch Isolated Digital I/O with 2-ch Counter Module

14-ch Wireless Isolated Digital I/O with 2-ch Counter Module



ADAM-6050

ADAM-6050W



## Specifications

### General

- LAN ADAM-6050: 10/100 Base-T  
ADAM-6050W: IEEE 802.11b WLAN
- Power Consumption 2 W @ 24 V<sub>DC</sub>

### Digital Input

- Channels 12
- Dry Contact Logic level 0: close to GND  
Logic level 1: open
- Wet Contact Logic level 0: 0 ~ 3 V<sub>DC</sub>  
Logic level 1: 10 ~ 30 V<sub>DC</sub>
- Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

### Digital Output

- Channels 6
- Open Collector to 30 V, 100 mA maximum load
- Supports 5 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output

## Ordering Information

- ADAM-6050 18-ch Isolated DI/O Module
- ADAM-6050W 18-ch Wireless Isolated DI/O Module

## Common Specifications

### General

- Watchdog System (1.6 second) and Communication (programmable)
- Power Input Unregulated 10 ~ 30 V<sub>DC</sub>
- Supports Peer-to-Peer
- Supports GCL (ADAM-6050 and ADAM-6051)
- Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocol



ADAM-6051

ADAM-6051W



## Specifications

### General

- LAN ADAM-6051: 10/100 Base-T  
ADAM-6051W: IEEE 802.11b WLAN
- Power Consumption ADAM-6051: 2 W @ 24 V<sub>DC</sub>  
ADAM-6051W: 2.5 W @ 24 V<sub>DC</sub>

### Digital Input

- Channels 12
- Dry Contact Logic level 0: close to GND  
Logic level 1: open
- Wet Contact Logic level 0: 0 ~ 3 V<sub>DC</sub>  
Logic level 1: 10 ~ 30 V<sub>DC</sub>
- Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

### Specific Counter Input

- Channels 2
- Mode Counter, Frequency
- Maximum Count 4,294,967,295 (32-bit + 1-bit overflow)
- Input Frequency Frequency Mode: 0.2 ~ 4500 Hz  
Counter Mode: 0 ~ 4.5 kHz

### Digital Output

- Channels 2
- Open Collector to 30 V, 100 mA maximum load
- Supports 5 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output

## Ordering Information

- ADAM-6051 16-ch Isolated DI/O with Counter Module
- ADAM-6051W 16-ch Wireless Isolated DI/O w/ Counter

### Protection

- Power Reversal Protection
- Isolation Protection 2000 V<sub>DC</sub>

### Environment

- Operating Temperature ADAM-6050 and ADAM-6051: -10 ~ 70° C  
ADAM-6050W and ADAM-6051W: -10 ~ 60° C
- Storage Temperature -20 ~ 80° C
- Humidity ADAM-6050 and ADAM-6051:  
Operating: 20 ~ 95% RH (non-condensing)  
Storage: 0 ~ 95% RH (non-condensing)  
ADAM-6050W and ADAM-6051W:  
5 ~ 95% RH (non-condensing)