# **ADAM-6050W** ADAM-6051W **ADAM-6060W**

Wireless LAN-enabled 18-channel **DI/O Module** Wireless LAN-enabled 16-channel Isolated I/O with Counter Module Wireless LAN-enabled 6-channel **Relay Output Module** 



### **Features**

- Supports IEEE802.11b wireless LAN
- Embedded web server with built-in web page •
- Supports Modbus/TCP & UDP protocols .
- Supports event trigger function

# Introduction

ADAM-6050W, ADAM-6051W, and ADAM-6060W bring wireless LAN communication to your network. The hardware design of the modules were based on ADAM-6050, 6051, and 6060, but a wireless LAN interface has replaced the RJ-45 Ethernet port. With support for the common IEEE802.11b, these modules can be accessed on your wireless LAN without any hardwiring. A sensible choice for environments with wiring limitations, or expensive wiring requirements.

# **Specifications**

#### General

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•	Certifications	CE, FCC class A	
•	Connectors	Plug-in screw terminal block (#14 ~ 28 AWG)	
•	Dimensions (WxHxD)	70 x 112 x 25 mm	Protection
•	Enclosure	ABS+PC	
•	LAN	IEEE802.11b WLAN	<ul> <li>Optical Isolat</li> </ul>
•	LED Indicators	Power, communication, signal, strength	Power Rever
	Mounting	DIN 35 rail, stack, wall	<ul> <li>Power Rever</li> </ul>
•	Power Consumption	ADAM-6050W, ADAM-6060W: 2 W (typical) ADAM-6051W: 2.5 W	Software
	Power Input	Unregulated 10 ~ 30 $V_{DC}$	<ul> <li>Support Prote</li> <li>Watchdog Tir</li> </ul>
C	ommunications		<ul> <li>Web Server</li> </ul>
•	Channels	ADAM-6050W: 12 DI, 6 DO ADAM-6051W: 12 DI/2 DO/2 Counter ADAM-6060W: 6 DI, 6 Relay	Environment • Humidity
•	Counter	Maximum Count: 4,294,967,285 (32 bit) Input frequency: 0.3 ~ 4500 Hz max. (frequency mode) 4500 Hz max. (counter mode)	<ul> <li>Operating Te</li> <li>Storage Tem</li> </ul>
		Modes: Counter (Up/Down, Bi-direction), Frequency	Orderin
•	Digital Input		- ADAM-6050V
	Dry Contact:	Logic level 0: Close to GND Logic level 1: Open (Status inversable by utility)	<ul> <li>ADAM-6050V</li> <li>ADAM-6051V</li> </ul>
	Wet Contact	(ADAM-6050W and ADAM-6051W only) Logic level 0: +3 V (max.) Logic level 1: +10 to 30 V	<ul> <li>ADAM-6060V</li> </ul>
	Counter Mode:	Up to 3 kHz for ADAM-6050W/6060W Up to 4.5 kHz for ADAM-6051W	
	Frequency Mode:	Up to 3 kHz for ADAM-6050W/6060W Up to 4.5 kHz for ADAM-6051W	
•	Digital Output	Open collector to 30 V, 200 mA max. load Pulse output : up to 5 kHz for ADAM-6050W and ADAM-6051W	

# Relay Output (Form A) Contact rating: AC: 120 V @ 0.5 A, DC: 30 V @ 1 A

Breakdown voltage: 500 V<sub>AC</sub> (50/60 Hz) Relay on time: 7 msec; Relay off time: 3 ms Total switching time: 10 ms Insulation resistance: 1 G $\Omega$  minimum at 500 V<sub>DC</sub>

#### on

- Isolation
- ADAM-6050W: 5,000 V<sub>RMS</sub> ADAM-6051W, ADAM-6060W: 2,000 V<sub>RMS</sub>
  - Reversal Protection

- t Protocol Modbus/TCP and UDP
  - log Timer Yes, programmable (Comm.)
    - Embedded, with web page for configuration

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- 5~95 % RH, non-condensing
- ing Temperature -10 ~ 60 °C (14 ~ 140 °F)
- e Temperature -25 ~ 85 °C (-13 ~ 185 °F)

# ring Information

- 6050W-A Wireless LAN-enabled 18-channel DI/O Module 6051W-A
  - Wireless LAN-enabled 16-channel Isolated I/O with
- 6060W-A
- Counter Module Wireless LAN-enabled 6-channel Relay Output Module

ADAM-6050W ADAM-6051W ADAM-6060W

# **Feature Details**

• Embedded web page • Event trigger function

Data stream function

Modbus/TCP supported

#### Communication

ADAM-6050W, ADAM-6051W and ADAM-6060W support IEEE802.11b, so they can connect to most wireless LAN access points.

Like other ADAM-6000 modules, ADAM-6050W, ADAM-6051W and ADAM-6060W also support the Modbus/TCP and UDP protocols. You can use HMI/SCADA software to communicate with the modules through Modbus/TCP. The pre-built UDP protocol supports event trigger and data streaming functions for critical and real time responses.

#### Embedded web server with built-in web page

The modules have an embedded web server with a built-in webpage that can be configured by an utility for: Tag Name, Status Label (for example, Start/Stop, Run/Stop, Enable/Disable and Alarm/Normal), and Channel Enable.

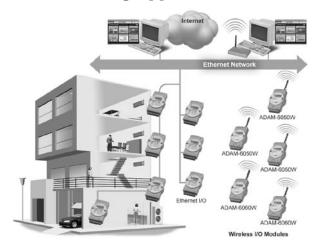
Although it is based on Java technology, there is no need to learn how to write Java applets to design a customized web page. By using ADAM-6000 utility software, the webpage can be customized to exact requirements.

IEEE802.11b

 Easy to install with no extra wiring
 Compatible with standard Wireless LAN

compatible Wireless LAN

## **Home/Building Application**



# Port Crane Monitoring & Control Application

