ADAM-6060W 6-channel Relay Output with DI Module

The ADAM-6060W is a high-density I/O module built-in a 10/100 based-T interface for seamless Ethernet connectivity. Bonding with an Ethernet port and web page, the ADAM-6060W offers 6 relay (form A) output and 6 digital input channels. It supports contact rating as AC 120V @ 0.5A, and DC 30V @ 1A. All of the Digital Input channels support input latch function for important signal handling. Mean while, these DI channels allows to be used as 1 KHz counter. Opposite to the intelligent DI functions, the Digital Output channels also support pulse output function.

ADAM-6060W

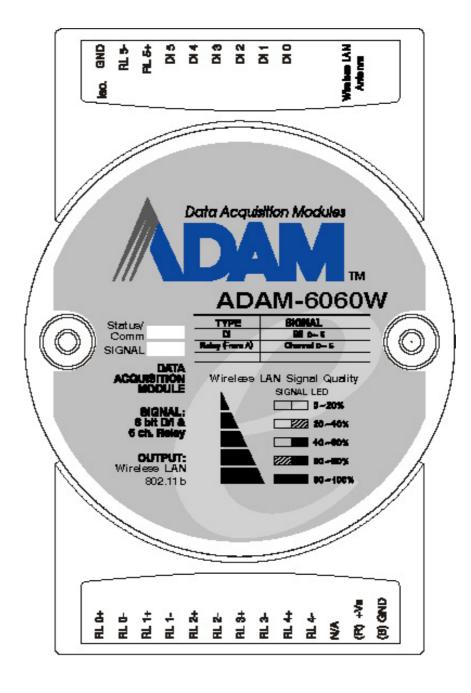


Figure 1: ADAM-6060W 6-channel Relay Output w/DI Module

ADAM-6060W Specification

- Channel: 12
- I/O type: 6 Relay & 6 DI
- Relay Output (Form A):Contact rating: AC: 120 V @ 0.5 A

DC: 30 V @ 1 A

Breakdown voltage: 500 V_{AC} (50/60 Hz)

Relay on time: 7 msec.

Relay off time: 3 msec.

Total switching time: 10 msec.

Insulation resistance:1000 MW minimum at 500 V_{DC}

• Digital Input:

Dry Contact:

Logic level 0: Close to GND

Logic level 1: Open

Wet Contact:

Logic level 0: +3 Vmax

Logic level 1: +10 to 30 V_{DC}

- Optical Isolation: $5000V_{\text{RMS}}$
- Communication: Wireless LAN IEEE802.11b
- Power Consumption: 2 W (Typical)

Application Wiring

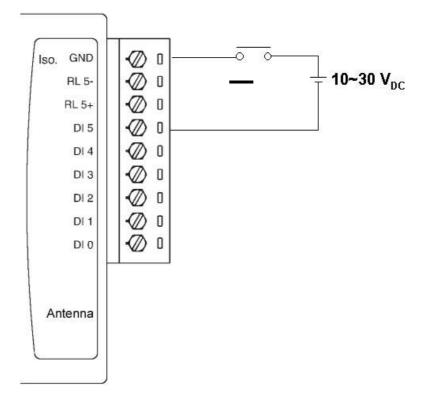


Figure 2: ADAM-6060W Digital Input (Wet Contact) Wiring

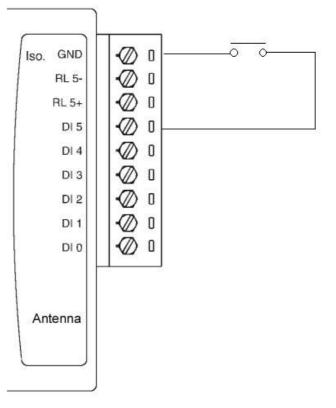


Figure 3: ADAM-6060W Digital Input (Dry Contact) Wiring

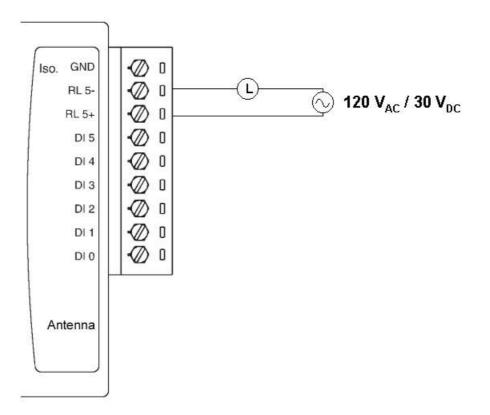
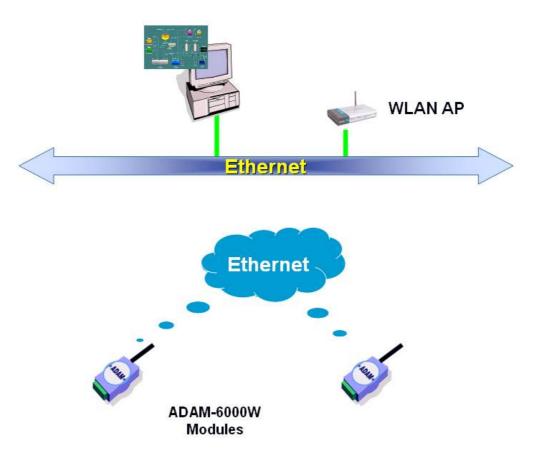


Figure 4: ADAM-6060W Relay Output Wiring

System Architecture



ADAM-6060W Configuration

Network Configuration

Step 1: Please open the ADAM-5000TCP-6000 utility software. The utility software will automatically scan the ADAM-6000 modules. Please wait for the ADAM-6060W being found by utility software.

ADAM-5000TCP/6000 Utility Ve	r 2.36.30
le <u>T</u> ool <u>S</u> etup <u>H</u> elp	
PHOST (10.0.0.119) □ - # [100.0.60] - (Adam-6060W B 6060W	Data Stream/Event Trigger Change Password Firmware/Web Wireless Slot Information Network System RS-485/Modbus/CDM-WDT Firmware Version: Ver 1.12
	Stot Module Description 0 6060W ADAM-6060W 6 D1 / 6 relay module
	1 2 3 4 5 6 7

Step 2 : Please go the "Network" page to change the IP address/Subnet Address/Default Gateway of ADAM-6060W module to be compatible with user's existing network and set the host idle time out value (the ADAM-6000 module can only accept 8 connection from host station. Any host station doesn't request the communication with this ADAM-6000 module over the time out setting, the connection of this host station will be released for the other stations).

S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Prost (1000.01)	Data Stream/Event Trigger Char Slot Information Network Ethernet Mac Address: 00-00-09-00-01-60 Link Speed: Auto Mode Deplex Mode: Auto Mode	nge Password Firmware/Web Wireless System RS-485/Modbus/CDM-WDT IP Address: 255.0.0 Default Gateway: 0.0.0 Host Idle: 90 second(s) X Cancel ▲ Apply

press "Apply" to download the new IP address to ADAM-6060W module (the default password for the changing configuration is "00000000").

	assword:		
Please enter the	PASSWORD(Max 8	3 Characters): [********	
		22	

Step 3 : Re-configuring the IP address of the configuration PC to be the original setting (compatible with user's existing network) then re-start the utility software. The software will automatically search the ADAM-6060W module again.

Step 4 : Go to the "Wireless" page to set the wireless LAN configuration.

ADAM-5000TCP/6000 Utility Ve	r 2.36.30	
ADAM-5000TC:P/6000 Utility Ve File Iool Setup Help Iool Setup Help	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireles: Basic setting WEP Site survey Mode: Infrastructure ▼ Diagnostic Adhoc SSID: <any>ANY Region: U.S.A. (1~11) ▼ Channel: 10 Basic rales: Auto ▼</any>	s
<	r	

Please set the wireless LAN mode to be "Infrastructure" or "Adhoc" based on exact system architecture.

MADAM-5000TCP/6000 Utility Ve File Icol Setup Help	r 2.36.30
Ele Iool Setty Help I Gol Setty Help I Host (10.0.119) I Goldon - Kolon Kol	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey
<u>< > ></u>	

Please assign the SSID for the specific wireless AP to be connected with ADAM-6000W modules. User can place "ANY" key to let the ADAM-6000W modules to automatically search the existing wireless AP. Or key in the specific SSID to assign the dedicated AP (strongly recommending to set up the dedicated SSID, it can guarantee the communication of ADAM-6000W modules to be stable)

e Iool Setup Help	
PHOST (10.0.01)9 → W (10.0.060) · (Adam-6060A ⊕ ⊕ 6060W	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey Mode: Infrastructure Diagnostic Adhoc SSID: WLAN ANY Region: U.S.A. (1~11) Channet 10 Basic rates: Auto Channet Stream Computer Stream

For assigning the dedicated wireless LAN AP, user can use the site survey function to check the existing AP in connection environment. Please go to the "Site Survey" page.

Basic setting		Site surv	· · ·			 ((
SSID	Α	P's MAC o	BSSID	Ch	Туре	 WEP	Strength

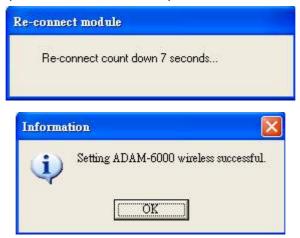
Press "Scan" bottom to search the existing AP.

SSID	AP's MAC or BSSID	Ch	Туре	WEP	Strength
@WLAN	02:D0:EA:E7:01:60	10	Ad hoc	No	69%
APIAG5F	00:90:4B:0B:14:7E	5	Infrastructure	No	57%
AdamSoft	00:0D:88:45:39:DE	1	Infrastructure	Yes	37%
SDWAP	00:C0:02:D2:04:06	7	Infrastructure	No	34%
Visitor	00:0B:85:04:39:FE	11	Infrastructure	Yes	26%
TTI	00:80:C8:03:3C:56	6	Infrastructure	Yes	19%
Employee-NF	00:0B:85:04:39:FF	11	Infrastructure	Yes	16%
		Ap	ply this config.	[S	ican

Selecting the AP in the searching result table.

Basic setting WE	P Site survey				
SSID	AP's MAC or BSSID	Ch	Туре	WEP	Strength
WLAN .	02:D0:EA:E7:01:60	10	Ad hoc	No	69%
APIAG5F	00:90:4B:0B:14:7E	5	Infrastructure	No	57%
AdamSoft	00:0D:88:45:39:DE	1	Infrastructure	Yes	37%
SDWAP	00:C0:02:D2:04:06	7	Infrastructure	No	34%
Visitor	00:0B:85:04:39:FE	11	Infrastructure	Yes	26%
TTI	00:80:C8:03:3C:56	6	Infrastructure	Yes	19%
Employee-NF	00:0B:85:04:39:FF	11	Infrastructure	Yes	16%
		Ap	ply this config	S	ican

Press "Apply" bottom to accept the AP to finish the set up action.



Please select the region for your area.

File Iool Setup Help Iool Setup Help Ioon Setup Help	MADAM-5000TCP/6000 Utility Ve	r 2.36.30
HOST (10.0.0.119) (10.0.0.60) - (Adam-6060W Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey Mode: Infrastructure Disgnostic Adhoc SSID: WLAN ANY Region: USA (1011) Channet USA (1011) Basic rates: France (10113) Japan (1111) Basic rates: France (10113) Japan (1114)	ile <u>T</u> ool <u>S</u> etup <u>H</u> elp	
	■ ● HOST (10.0.0.119) ■ ● 1000 (10.0.0.00) - (Adam-6060)	Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey Mode: Infrastructure Diagnostic Adhoc SSID: WLAN ANY Region: USA (1911) Channet: Europe (1913) Spain (1971) France (10*13) Japan (1*14)
	X	

Setting the used channel, the channel number must be included in the channel segment of your region.

File Iool Setup Help 1	
E 2000 (10.0.060) - (Adam-6060 ∧	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey Mode: Infrastructure Diagnostic Adhoc SSID: WLAN ANY Region: U.S.A. (1~11) Channet: Image: Basic rates: Auto
	K Cancel O Apply

Please select the basic rate for the communication bandwidth.

e Icol Setup Help	
HOST (10.0.0.119) □ ∰ (10.0.0.60) - (Adam-6060% ⊕ ⊕ € 6060W	Slot Information Network System RS-485/Modbus/COM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Basic setting WEP Site survey Mode: Infrastructure Diagnostic Adhoc SSID: WLAN ANY Region: U.S.A. (1*11) Channet 10 Basic rates: Stord Auto Auto
	X Cancel O Apply

Press the "Apply" bottom to finish the set up work.

Step 5 : Configure the WEP security setting. Please go to the WEP page in "Wireless" of utility software.

Basic setting	WEP Site si	urvey		
Use WEP:	Disable	-		
Key format:	Alphanumeric	*		
WEP key:	-			
	1910			

If user want to use the WEP security function, please enable the WEP function in "User WEP" then select the Key format and key in the WEP key for this requirement.

Disable	3	-		
104 Dits				
	Disable	Disable 64 bits	Disable 64 bits	Disable 64 bits

Step 6 : Data Stream Configuration

In addition to TCP/IP communication protocol, ADAM-6000 supports UDP communication protocol to regularly broadcast data to specific host PCs.

Click the tab of Data Stream, then configure the broadcasting interval and the specific IP addresses which need to receive data from the specific ADAM-6000 I/O module. This UDP Data Stream function broadcasts up to 8 host PCs simultaneously, and the interval is user-defined from 50ms to 7 Days.

 HOST (10.0.0.119) →	Data Stream/Event Trigger Change Password Firmware/Web Wireless Slot Information Network System RS-485/Modbus/COM-WDT
	Slot Module Description 0 6060W ADAM-6060W/ 6 DI / 6 relay module 1 2 3
	4 5 6 7

Please Entr) ays: 0	er the data stre Hours: 0	saming interval: - Minutes: 0 +	Seconds:	mSeconds	Update
	osts to accep 55.255.255.25	t the stream data	···	55.255.255.255	- 1
	5.255.255.25	_		55.255.255.255	
· · ·	5.255.255.25			55.255.255.255	Update Update
- Jes	5.255.255.25			55.255.255.255	Update

Data Stream Monitoring

After finishing the configuration of Data Stream, you can select the item "Monitor Data Stream" in the function bar or click icon to call up operation display as below Figure.

IP Address: 172.18.1.194	▼ Port: 5168	Start Stop
Receiving Stream Data: At AM 09:23:04 Count=0 At AM 09:23:05 Count=1 At AM 09:23:08 Count=2 At AM 09:23:08 Count=3 At AM 09:23:09 Count=4 At AM 09:23:10 Count=6 At AM 09:23:11 Count=6 At AM 09:23:12 Count=7 At AM 09:23:13 Count=8	CH01: Data:7fff CH02: Data:7fff CH03: Data:7fff CH04: Data:7fff CH05: Data:7fff CH06: Data:7fff CH07: Data:7fff	Max:8bf9 Min:7fff Max:8ae6 Min:7fff Max:83c9 Min:7fff Max:8dd Min:7fff Max:9136 Min:7fff Max:9064 Min:7fff Max:8eee Min:7fff Max:8ee Min:7fff Max:817 Min:7fff ff Max:b82c Min:7fff

Select the IP address of the ADAM-6000 you want to read data, then click "Start" button. The Utility software will begin to receive the stream data on this operation display.

Firmware/Web Page Configuration

Web Page Configuration

Step 1 : Please go to the "Firmware/Web" configuration page

MADAM-5000TCP/6000 Utility V	er 2.36.30
<u>File I</u> ool <u>S</u> etup <u>H</u> elp	
File Iool Setup Help Setup Help P Setup Help P HOST (10.0.0119) P Setup HoST (10.0.00) (Adam-6060W P Setup Help P Setup H	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 10000.60 Firmware: HTML File:
_	

Step 2: The ADAM-6000W modules support the configurable web page feature. Users don't have to learn the Java language to write the Java program to make the customized web page. Users can use the utility software to easily configure the web page that you want. Please follow the below instruction to configure the web page inside ADAM-6000W modules.

Press the web page configuration bottom.

le Iool Setup Help	
HOST (10.0.0119) ∰ (10.0.060) - (Adam-6060M ∰	Slot Information Network System RS-485/Modbus/COM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 1000050 Firmware: HTML File: JAR File:
	f

Key in the Tag Name of input channel.

			ADAI	M-6060\	N We	b Pag	e		
DI G	roup Mess	age:				Group Mess	sage:		
	Tag	Description	Label	Log '0'		Tag	Description	Label	Log '1
[1]	DIO	DI Channel 0	ON		[1]	D0 0	DO Channel 0	ON	
[2]	DI 1	DI Channel 1	ON	9	[2]	D0 1	D0 Channel 1	ON	
[3]	DI 2	DI Channel 2	ON	9	[3]	D0 2	DO Channel 2	ON	
[4]	DI 3	DI Channel 3	ON	9	[4]	D0 3	DO Channel 3	ON	
[5]	DI 4	DI Channel 4	ON	9	[5]	D0 4	DO Channel 4	ON	
[6]	DI 5	DI Channel 5	ON		[6]	D0 5	DO Channel 5	ON	

Key in the description of input channel

			ADA	M-6060\	N We	b Pag	e		
DI Gi	roup Mess	age:			- DO I	Group Mes:	sage:		
	Tag	Description	Label	Log '0'		Tag	Description	Label	Log '1
[1]	DIO	DI Channel 0	ON	Ø	[1]	D0 0	DO Channel 0	ON	
[2]	DI 1	DI Channel 1	ON		[2]	D0 1	DO Channel 1	ON	
[3]	DI 2	DI Channel 2	ON		[3]	D0 2	DO Channel 2	ON	
[4]	DI 3	DI Channel 3	ON		[4]	D0 3	DO Channel 3	ON	Ø
[5]	DI 4	DI Channel 4	ON		[5]	D0 4	DO Channel 4	ON	O I
[6]	DI 5	DI Channel 5	ON		[6]	D0 5	DO Channel 5	ON	Ø

Press the label bottom to configure the label description of input channel.

				Title					
DI G	roup Messa	ige:			DO (àroup Mess	age:		
	Tag	Description	Label	og '0'		Tag	Description	Label	Log '1
[1]	DIO	CI Channel 0	ON V	ا 🌔	[1]	DOO	DO Cahnnel O	ON	
[2]	DI 1	CI Channel 1	ON	۱ 🌔	[2]	DO 1	DO Cahnnel 1	ON	
[3]	DI 2	CI Channel 2	ON	۱ 🍳	3]	D0 2	DO Cahnnel 2	ON	
[4]	DI 3	CI Channel 3	ON	۱ 🌔	[4]	D0 3	DO Cahnnel 3	ON	
[5]	DI 4	CI Channel 4	ON	🍎 i	5]	D0 4	DO Cahnnel 4	ON	
[6]	DI 5	CI Channel 5	ON	۵ 🌔	6]	D0 5	DO Cahnnel 5	ON	
[7]	DI 6	CI Channel 6	ON	@					
[8]	DI 7	Cl Channel 7	ON	@					
[9]	DI 8	CI Channel 8	ON	@					
[10]	DI 9	CI Channel 9	ON	<u>0</u>					
[11]	DI 10	CI Channel 10	ON	@					
[12]	DI 11	Cl Channel 11	ON	0					
						-			

			ADAM-6060	W Web Pag	le		
DI G	roup Mess	age:	Java outlook desi	gn			
	Tag	Description			escription	Label	Log '1
[1]	DIO	DI Channel 0	Logical '1': 🔟	0	0 Channel 0	ON	
[2]	DI 1	DI Channel 1			0 Channel 1	ON	
[3]	DI 2	DI Channel 2	Logical '0': Of	F	0 Channel 2	ON	
[4]	DI 3	DI Channel 3			0 Channel 3	ON	
[5]	DI 4	DI Channel 4	ОК	Cancel	0 Channel 4	ON	
[6]	DI 5	DI Channel 5			0 Channel 5	ON	

Key in the Tag Name of output channel

			ADAI	M-6060\	N We	eb Pag	e		
DI Gi	roup Mess	age:		1	-DO	Group Mes:	sage:		
	Tag	Description	Label	Log '0'		Tag	Description	Label	Log '1
[1]	DIO	DI Channel 0	ON		[1]	D0 0	DO Channel O	ON	
[2]	DI 1	DI Channel 1	ON	9	[2]	DO 1	D0 Channel 1	ON	0
[3]	DI 2	DI Channel 2	ON	9	[3]	D0 2	DO Channel 2	ON	
[4]	DI 3	DI Channel 3	ON	9	[4]	D0 3	DO Channel 3	ON	
[5]	DI 4	DI Channel 4	ON	9	[5]	DO 4	DO Channel 4	ON	
[6]	DI 5	DI Channel 5	ON		[6]	D0 5	DO Channel 5	ON	

Key in the description of output channel

			ADA	M-6060\	N We	eb Pag	e		
DI Gr	oup Mess	age:			DO	Group Mess	age:		
	Tag	Description	Label	Log '0'		Tag	Description	Label	Log '1
[1]	DIO	DI Channel 0	ON	Q	[1]	DO 0	DO Channel O	ON	
[2]	DI 1	DI Channel 1	ON		[2]	D0 1	DO Channel 1	ON	0
[3]	DI 2	DI Channel 2	ON	0	[3]	D0 2	DO Channel 2	ON	0
[4]	DI 3	DI Channel 3	ON		[4]	D0 3	DO Channel 3	ON	Ø
[5]	DI 4	DI Channel 4	ON	9	[5]	D0 4	DO Channel 4	ON	
[6]	DI 5	DI Channel 5	ON	0	[6]	D0 5	DO Channel 5	ON	O I

Press the label bottom to configure the label description of output channel

			ADA	4-6060\	N We	b Pag	e		
DI Gr	roup Mess	age:				aroup Mes:	sage:		
	Tag	Description	Label	Log '0'		Tag	Description	Lab	Log '1
[1]	DIO	DI Channel 0	ON		[1]	D0 0	DO Channel O	ON	
[2]	DI 1	DI Channel 1	ON		[2]	D0 1	DO Channel 1	ON	
[3]	DI 2	DI Channel 2	ON	Ø	[3]	D0 2	DO Channel 2	ON	
[4]	DI 3	DI Channel 3	ON	9	[4]	D0 3	DO Channel 3	ON	Ø
[5]	DI 4	DI Channel 4	ON	1 🦉 🛛	[5]	D0 4	DO Channel 4	ON	0
	1000000								
[6]	DI 5	DI Channel 5		01 01 01		 	DO Channel 5		
[6]		k design	ADAI	0) 01 4-6060	K K W We		9] @
[6]	ra outloo	k design	ADAI) 01	K K W We			Label	
[6]	r <mark>a outloo</mark> l iroup Mess	k design	ADAI Jaya out	01 01 M-6060 look desig	K W We		e X		
[6]] Jav	ra outloo iroup Mess Tag	k design age: Description	ADAI Java out Logic	01 01 M-6060 look desig	K W We		e	Label	Log'1'
[6] [Jav	ra outlool iroup Mess Tag DI 0	k design rage: Description DI Channel 0	ADAI Jaya out	01 01 4-6060 look desig	K W We		e escription 0 Channel 0	Label	Log'1'
[6] [Jav [1] [2]	ra outloo iroup Mess Tag DI 0 DI 1	k design age: Description DI Channel 0 DI Channel 1	ADAI Java out Logic	01 01 M-6060 look desig	K W We		e escription 0 Channel 0 0 Channel 1	Label ON ON	Log'1'
[6] [Jav [1] [2] [3]	iroup Mess Tag DI 0 DI 1 DI 2	k design Page: Description DI Channel 0 DI Channel 1 DI Channel 2	ADAI Java out Logic	01 01 M-6060 look desig	K W We n		e escription 0 Channel 0 10 Channel 1 0 Channel 2	Label ON ON ON	Log'1'

Click the title position to configure the page title description

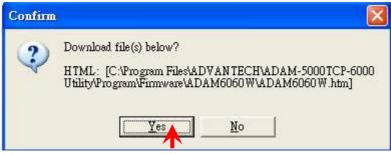
DI Group	o Messa	ge:			_ DO I	Group Mess	sage:		
Ta	g	Description	Label	Log '0'		Tag	Description	Label	Log '
[1] DI	10	DI Channel 0	ON		[1]	D0 0	DO Channel O	ON	
[2] DI	11	DI Channel 1	ON	9	[2]	D0 1	D0 Channel 1	ON	
[3] DI	12	DI Channel 2	ON	9	[3]	D0 2	DO Channel 2	ON	
[4] DI	13	DI Channel 3	ON		[4]	D0 3	DO Channel 3	ON	0
[5] DI	4	DI Channel 4	ON		[5]	D0 4	D0 Channel 4	ON	
[6] DI	15	DI Channel 5	ON		[6]	D0 5	DO Channel 5	ON	
	-	Dialog							
		Caption:	ADAM-6060	JW Web	Page				

			ADA	M-6060V	N We	eb Pag	e		
DI G	roup Mess	age:			_ D0 I	Group Mes:	sage:		
	Tag	Description	Label	Log '0'		Tag	Description	Label	Log '1
[1]	DIO	DI Channel 0	ON		[1]	DO 0	DO Channel O	ON	0
[2]	DI 1	DI Channel 1	ON		[2]	D0 1	DO Channel 1	ON	Ø
[3]	DI 2	DI Channel 2	ON		[3]	D0 2	DO Channel 2	ON	
[4]	DI 3	DI Channel 3	ON		[4]	D0 3	DO Channel 3	ON	Ó
[5]	DI 4	DI Channel 4	ON		[5]	D0 4	DO Channel 4	ON	
[6]	DI 5	DI Channel 5	ON		[6]	D0 5	D0 Channel 5	ON	
[6]	DI 5	DI Channel 5	ON		[6]	JDO 5	D0 Channel 5	ON	

Please press "OK" after finishing all of the web page configuration.

Press "Update" bottom to download the web page configuration into ADAM-6000W module. And system will save the configuration data as a file in C:\Programs\ADAM-5000TCP-6000 Utility\Program\Firmware\ADAM-6060W\ADAM6060W.Html

ADAM-5000TCP/6000 Utility Ve	r 2.36.30
File Tool Setup Help	
Image: Second	Slot Information Network System RS-485/Modbus/COM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 10.0.0.60 Firmware: Image:





User can also retrieve the previous web page configuration file to download to ADAM-6000W Module.

Select the stored web page configuration file then press "Open"

開啓			6	? 🗙
搜尋位置(): () ADAM606	C ADAM6060 W	•	- € ☆ ⊞ •	
	ADAM6060W HTML file (*.htm) 厂 以唯讀方式開啓(R)	<u>.</u>	開啓(<u>0</u>) 取消]

Follow the above action to download the selected file into ADAM-6000W module.

Firmware Update

Step 1 : Press the browse bottom of firmware

Image: Solution of the second sec	ADAM-5000TCP/6000 Utility Ver	: 2.36.30
HOST (10.0.0119) I (10.0.060) - (Adam-5060W I - E 5060W Slot Information Network System RS-485/Modbuz/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 1000 50 Firmware: HTML File: JAR File: JAR File:		
e >	= 🥐 HOST (10.0.0.119) □ 🚀 (10.0.0.60) - (Adam-6060\v	Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 1000060 Firmware: HTML File: JAR File:

Step 2 : Select the firmware file to be downloaded

開啓			? 🛛
搜尋位置①:	DAM6060W	• + 6	⊡ d [*] ⊡ •
ADAM606	0₩		
檔案名稱(11):	ADAM6060W		開啓(0)
檔案類型(I):	Firmware files (*.bin)	•	取消
	「 以唯讀方式開啓(<u>R</u>)		

Step 3 : Press "Update" bottom to finish the firmware update action

ADAM-5000TCP/6000 Utility Ve	: 2.36.30
<u>File I</u> ool <u>S</u> etup <u>H</u> elp	
Ede Iool Setup Help	Slot Information Network System RS-485/Modbus/CDM-WDT Data Stream/Event Trigger Change Password Firmware/Web Wireless Target IP: 10.0.0.60 Image: C.VProgram Files\ADVANTECH\ADAM-5000TCP-6000 Image: C.VPro
< >	

Input/Output Channel Configuration

Step 1 : Please click on the "6060W" to go to the ADAM-6060W configuration main page.

🛯 🥐 HOST (10.0.0.119)	-ADAM-60)60W 6 [DI 7 6 rela	ay module					
🖻 🍯 (10.0.0.60) - (Adam-6060\	Locati	Туре	Value	Description	Mode	Digital	Output:		
🕀 🌠 6060	00001	Bit	1	DI CH:00	D/I	Value	Commun	ication W	'DT
	00002	Bit Bit	1	DI CH:01 DI CH:02	D/I D/I				
	00003	Bit	1	DI CH:02 DI CH:03	D/I	Uutpu	Value(He	x):	00
	00005	Bit	1	DI CH:04	D/I	DO 3	0 002	DO 1	DOO
	00006	Bit Bit	1 0	DI CH:05 DO CH:00	D/I D/0	8	8	8	8
	00017	Bit	0	DO CH:00	D/0		_	D0 5	D0 4
	00019	Bit	0	D0 CH:02	D/0			8	8
	00020	Bit Bit	0 0	D0 CH:03 D0 CH:04	D/0 D/0				
	00022	Bit	Ő	DO CH:05	D/0				
						Digital Input	Input: Value(He:	d:	3F
						DI	3 012	DI1	
						Ŷ	Q	8	Q
							_	DI 5	DI 4
								Q	

Step 7: Please go to "Communication WDT" to set up the communication watchdog timer setting. This function is used for security protect, it means sometimes, noise or other reasons will cause the communication fail, and the host PC won't control the modules anymore, but the modules will keep the latest output status, and this status may cause dangerous, so while this situation happen, the communication WDT will detect it till timeout then reset the module and set the output to safety value to prevent the dangerous, user can set the safety value by themselves.

🖃 🥐 HOST (10.0.0.119)	-ADAM-60	060W 6 D) / 6 rela	ay module					
i	Locati 00001 00002 00003 00005 00006 00017 00018 00019 00020 00021 00022	Type Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit	Value 1 1 1 1 1 1 1 0 0 0 0 0 0 0	Description DI CH:01 DI CH:01 DI CH:02 DI CH:03 DI CH:04 DI CH:05 DI CH:05 DI CH:05 DI CH:05 DI CH:05 DI CH:05	Mode D/I D/I	I Enable I Turn 0 I Turn 0 I Turn 0 Digital In	Communica e following In DOO T In DOO T In DOO T Upda	i safety Turn Turn Turn Turn	value On DO3 On DO4

Step 3 : Please click on "DO:XX" to access the digital output channel configuration page. The digital output channel of ADAM-6060W can be configured as typical DO output, pulse output, DO with LO to Hi delay or DO with Hi to LO delay:

ADAM-5000TCP/6000 Utility V	er 2.36.30			
le <u>T</u> ool <u>S</u> etup <u>H</u> elp				
HOST (10.0.0.119) (10.0.0.60) - (Adam-6060) (10.0.60) - (Adam-6060) (10.0.60) (10.000 (1	ADAM-6060W D0:0 Digital Output Mode So Mode Selecting:	etting: " Pulse Output	C Lo to Hi Delay	C Hi to Lo Delay
□ D0:04 □ D0:05 □ D1:00 □ D1:01 □ D1:02 □ D1:03 □ D1:04 □ D1:04 □ D1:05	'D/O' Mode			
				👸 Update

For typical DO setting :

For	Pulse	Output	setting	:
-----	-------	--------	---------	---

ADAM-5000TCP/6000 Utility	7er 2.36.30
File Iool Setup Help	
HOST (10.0.019) € (10.0.05) - (Adam-6060% € 6060W € 00000 € 00000	ADAM-6060W D0:0 Digital Output Mode Setting: Mode Selecting: C D/0 Putse Output C Lo to Hi Delay Hi to Lo Delay
Image: Control Decode	Please clicking 'Update' button to set as 'Pulse output' Mode
	ලි Update
<	

For "Lo to Hi delay" and "Hi to Lo delay" function :

ADAM-5000TCP/6000 Utility V	'er 2.36.30
File Tool Setup Help	
HOST (10.0.0.119) → ◆ (10.0.060) - (Adam-6060) → ◆ 60600 → ○ D0:00 → ○ D0:01 → ○ D0:02 → ○ D0:04 → ○ D0:05 → ○ D1:00 → ○ D1:02 → ○ D1:02 → ○ D1:03 → ○ D1:05	ADAM-6060W D0:0 Digital Output Mode Setting: Mode Selecting: O D/0 Pulse Output Please clicking 'Update' button to set as 'L0 to HI Delay' Mode
Image: ADAM-5000TCP/6000 Unity Y File Iool Setup Help Image: ADAM-5000TCP/6000 Unity Y File Iool Setup Help Image: ADAM-5000TCP/6000 Unity Y Image: ADAM-5000TCP/6000 Unity Y File Iool Setup Help Image: ADAM-5000TCP/6000 Unity Y Image: ADAM-5000TCP/6000 Unity Y File Iool Setup Help Image: ADAM-5000TCP/6000 Unity Y Ima	Per 2.36.30
☐ ∰ (10.0.0.60) - (Adam-6060%) ☐ ∰ 6060W	Digital Output Mode Setting:
D0:00	Mode Selecting:
© D0:02	CD/D CPulse Output CLo to Hi Delay CHi to Lo Delay
- 9 D0:04 - 9 D0:05 - 9 D1:00 - 9 D1:01 - 9 D1:02 - 9 D1:03 - 9 D1:03	Please clicking 'Update' button to set as 'HI to LO Delay' Mode
₩ DI:05	
	🛐 Update
< >	

Step 4 : Please click on "DI:XX" to access the digital input configuration page. The digital input channel of ADAM-6060W supports typical DI, counter, frequency, Lo to Hi Latch and Hi to Lo Latch.

For typical DI setting :

ADAM-5000TCP/6000 Utility	¥er 2.36.30
e <u>T</u> ool <u>S</u> etup <u>H</u> elp	
Image: Non-State Image: Non-State Image: Non-State	ADAM-6060W DI:0 Digital Input Config: Mode Selecting: © DI © Counter © Frequency © Lo to Hi Latch © Hi to Lo Latch To invert signal D/I' Mode D/I' Mode

For Counter setting :

e Iool Setup Help	
Image: Second state st	ADAM-6060W DI:0 Digital Input Config: Mode Selecting: DI Counter Frequency C Lo to Hi Latch Hi to Lo Latch T To invert signal Please clicking Update' button to set as 'Counter' Mode

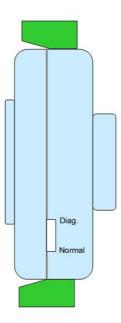
For Frequency setting :

ADAM-5000TCP/6000 Utility V	er 2.36.30 📃 🗖 🔀
File Iool Setup Help	
HOST (10.00.119) → HOST (10.00.019) → (10.00.60) - (Adam-6060) → 60600/ → 00.00 → 00.00	ADAM-5060W DI:0 Digital Input Config: Mode Selecting: C DI C Counter © Frequency C Lo to Hi Latch C Hi to Lo Latch T To invert signal Please clicking 'Update' button to set as 'Frequency' Mode

For "Lo to Hi Latch" and "Hi to Lo Latch" setting :

ADAM-5000TCP/6000 Utility	Yer 2.36.30	X
<u>File T</u> ool <u>S</u> etup <u>H</u> elp		
HOST (10.0.0.119) HOST (10.0.061) - (Adam-6060) Solono Contemporation - (Adam-6060) Solono Contemporation Contemporation Contemporation HOST (10.0.0119) Contemporation Contemporat	ADAM-6060W DI:0 Digital Input Config. Mode Selecting Di Counter C Frequency C Loto Hi Latch C Hi to Lo Latch T To invert signal Please clicking Update' button to set as "L0 to HI Latch' Mode	
		1
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Eile Iool Setup Help ■ ● HOST (10.0.0.119) ■ ● (10.0.06) - (Adam-6060vk ■ ● 6060vk ■ ● 0000 ■ ● D0.01 ■ ● D0.02 ■ ● D0.03	ADAM-6060W DI:0 Digital Input Config: Mode Selecting: C DI C Counter C Frequency C Lo to Hi Latch C Hi to Lo Latch	

Appendix : Adam-6000W Mode Setting



<u>switch</u>

Mode 1 (Normal Mode): In this mode, you can use Utility to configure module to Infrastructure or Ad hoc mode.

Mode 2 (Diagnostic Mode): The purpose of this mode is used to recover the Adam-6000W module from error state. User can switch module to diagnostic Infrastructure/Ad hoc mode that has temporary wireless setting and default IP, subnet mask. Therefore, user can re-configure the wireless setting when module's communication is dead. (*Note: the temporary wireless setting will be cleared after reboot to Normal mode)

Diagnostic-mode default settings:

Diagnostic Ad hoc mode setting:

Temporary SSID: WLAN Temporary Channel: 10 Temporary Wep: No IP: 10.0.0.1 Subnet mask: 255.0.0.0

Gateway: 0.0.0.0

Diagnostic Infrastructure mode setting:

Temporary SSID: <ANY> Temporary Channel: 10 Temporary Wep: No IP: 10.0.0.1 Subnet mask: 255.0.0.0 Gateway: 0.0.0.0

ADAM-6060 MODBUS Address Mapping table

$\Big/$	ADDR 0X	СН	ITEM	Attribute	ADDR 4X	СН	ITEM	Attribute
	00001	0	DI	R	40001~40002	0	*Counter	R
	00002	1	DI	R	40003~40004	1	*Counter	R
	00003	2	DI	R	40005~40006	2	*Counter	R
	00004	3	DI	R	40007~40008	3	*Counter	R
	00005	4	DI	R	40009~40010	4	*Counter	R
	00006	5	DI	R	40011~40012	5	*Counter	R
	00017	0	DO	R/W	40013~40014	0	Pulse Output Low Level	R
	00018	1	DO	R/W	40015~40016	1	Pulse Output Low Level	R
	00019	2	DO	R/W	40017~40018	2	Pulse Output Low Level	R
	00020	3	DO	R/W	40019~40020	3	Pulse Output Low Level	R
	00021	4	DO	R/W	40021~40022	4	Pulse Output Low Level	R
	00022	5	DO	R/W	40023~40024	5	Pulse Output Low Level	R
	00033	0	Counter Start(1)/Stop(0)	R/W	40025~40026	0	Pulse Output High Level	R
	00034	0	Clear Counter(1)	R/W	40027~40028	1	Pulse Output High Level	R
	00035	0	Clear Overflow	R/W	40029~40030	2	Pulse Output High Level	R
	00036	0	Latch Status/ Clear Status	R/W	40031~40032	3	Pulse Output High Level	R
	00037	1	Counter Start(1)/Stop(0)	R/W	40033~40034	4	Pulse Output High Level	R
	00038	1	Clear Counter(1)	R/W	40035~40036	5	Pulse Output High Level	R
	00039	1	Clear Overflow	R/W				
	00040	1	Latch Status/ Clear Status	R/W				
	00041	2	Counter Start(1)/Stop(0)	R/W				
	00042	2	Clear Counter(1)	R/W				

00043	2	Clear Overflow	R/W	40037~40038	0	Set Absolute Pulse (0=Continue Mode)	R
00044	2	Latch Status/ Clear Status	R/W	40039~40040	1	Set Absolute Pulse (0=Continue Mode)	R
00045	3	Counter Start(1)/Stop(0)	R/W	40041~40042	2	Set Absolute Pulse (0=Continue Mode)	R
00046	3	Clear Counter(1)	R/W	40043~40044	3	Set Absolute Pulse (0=Continue Mode)	R
00047	3	Clear Overflow	R/W	40045~40046	4	Set Absolute Pulse (0=Continue Mode)	R
00048	3	Latch Status/ Clear Status	R/W	40047~40048	5	Set Absolute Pulse (0=Continue Mode)	R
00049	4	Counter Start(1)/Stop(0)	R/W				
00050	4	Clear Counter(1)	R/W				
00051	4	Clear Overflow	R/W	40049~40050	0	Set Incremental Pulse	R
00052	4	Latch Status/ Clear Status	R/W	40051~40052	1	Set Incremental Pulse	R
00053	5	Counter Start(1)/Stop(0)	R/W	40053~40054	2	Set Incremental Pulse	R
00054	5	Clear Counter(1)	R/W	40055~40056	3	Set Incremental Pulse	R
00055	5	Clear Overflow	R/W	40057~40058	4	Set Incremental Pulse	R
00056	5	Latch Status/ Clear Status	R/W	40059~40060	5	Set Incremental Pulse	R

*Note : How to retrieve the counter/frequency value on Modbus address mapping

Example :

Counter(dec) = (value of 40002) x 65536 + (value of 40001) Frequency(dec) = (value of 40001)/10 Hz This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

CE Declaration of Conformity

(€0984)

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/3360EEC.

The equipment was passed. The test was performed according to the following European standards:

- EN 300 328 V.1.6.1 (2004-04)
- EN 301 489-1 V.1.4.1 (2002-04) / EN 301 489-17 V.1.2.1 (2002-04)
- EN 50371: 2002
- EN 60950: 2000