Date	2015⁄07⁄ 16	SR#	1-2120328816
Category	■FAQ □SOP	Related OS	N/A
Abstract	How Much Voltage or Current Can ADAM DO Outputting		
Keyword	ADAM, DO, Open Collector		
Related	DO(Open Collector) support among ADAM 4XXX & ADAM 6XXX		
Product	DO(Open Collector) support among ADAM-4XXX & ADAM-6XXX		

Problem Description:

This document explains a common question regarding how much voltage/current can DO channel of ADAM-Module outputting.

Brief Solution - Step by Step:

Unlike from PLC design, users sometimes misunderstanding that DO channel of ADAM-Module is capable of outputting different level of voltage or current based on pre-defined logic(i.e. "0" or "1") at a given DO channel.

If you check DO SPEC from Advantech technical documentation, you often see the following statement in the SPEC:

DO, Open Collector to 30 V, 30mA Max.Load

That means, the DO channel of ADAM-Module utilizes an "Open Collector" for which acting like an "Switching Circuit", that is:

"Open Circuit (no connection to anything)"

OR

"Short Circuit (connection to ground)".

So, instead of outputting a signal of a specific voltage or current, a control signal is applied to the base of an internal NPN transistor whose collector is externalized (open) on a pin of the IC. The emitter of the transistor is connected internally to the ground pin.



Advantech AE Technical Share Document

Date	2016/02/04	SR#	1-2381207318	
Category	■FAQ □SOP	Related OS	N/A	
Abstract	ADAM-6000 & ADAM-6200, How to send the data to the external network?			
Keyword	Ethernet, Port Forwarding, IP, Port, NAT			
Related				
Product	ADAM-6000 series, ADA	JU series, ADAM-6100 series, ADAM-6200 series		

Problem Description:

This document explains what is needed to be noticed if the ADAM needs to send the data to the external network?

Answer:

If GCL sends the remote message to the outside network, that means your application requirement is about data communication for device locating between intranet (private/internal network) and internet (public/external network) via NAT.

There are two scenarios for the external machine (pc). One is in the private domain. Another is in the public domain.

If the external machine is in private domain, then you need manually configure "port forwarding" on your Gateway Router (such as Cisco/D-Link/Linksys etc...) to enable bi-directional request communication. This is because NAT only allows requests coming from the internal network to the external network, which means that it is impossible as such for an external machine to send a packet to a machine on the internal network. In other words, the internal network machines cannot operate as a server with regards the external network. For this reason, the Gateway Router normally provide one function called "port forwarding" or port mapping consisting of configuring the gateway to send all packets received on a particular port to a specific machine on the internal network. So, if the internal network device(let's say an ADAM module => Internal Network) needs to access the port 1052 (user-defined) operating on machine 172.18.3.4 (Let's say pc => External Network), it will be necessary to define a port forwarding rule on the gateway, redirecting all TCP packets received on port 1052 (user-defined) to machine 192.168.1.2. The following picture demonstrates the discussion above:



If external machine is in public domain (it means that the pc has a public address). The internal network machine (let's say an ADAM module => Internal Network) to sends udp packet to a machine 172.18.3.4 directly and need to set "port forwarding".



Moreover, the customer can also establish the VPN environment to make the external device in the internal network. Then, the ADAM can send the udp packet to the machine in the internal network.

Advantech AE Technical Share Document

Date	2016/06/27	SR#	1-2495023181
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-60XX & ADAM-62XX, How does Utility to list ADAM modules?		
Keyword	IP, MAC Address, Utility		
Related			
Product	ADAM-6000, ADAM-62	200	

Problem Description:

This document shows how does Utility to list ADAM modules?

Answer:

When Utility search the Ethernet module (ADAM-6000, ADAM-6200 series), it lists the module in the left side. What's the order of them? If IPs of each module is different, Utility can list them by the descending order. If the IP is the same, Utility lists them refer to Mac Addressing by descending order. The following test shows that:

Module: ADAM-6256, Mac Address: 00-D0-C9-F3-DA-6D Module: ADAM-6250, Mac Address: 00-D0-C9-F5-B3-17 Module: ADAM-6050, Mac Address: 00-D0-C9-F4-B1-9F

IP is different.	IP is the same.
Image: Serial COM1 COM3 COM4 Image: COM4 COM4 Image: COM4 Image: COM4 <	Serial COM1 COM3 COM4 Ethemet 0 172.18.3.38 0 172.18.3.104-[WISE-4060/LAN] 0 172.18.3.104-[WISE-4060/LAN] 0 10.0.0.5-[ADAM-6256] 10.0.0.5-[ADAM-6250] 10.0.0.5-[ADAM-6250] 172.18.6.31 0 Others Favorite Group ADAM4500_5510Series Wireless Sensor Networks

Advantech AE Technical Share Document

Date	2015 / 04⁄08	SR#	1-2042419571	
Category	□FAQ ■ SOP	Related OS	N/A	
Abstract	ADAM-60XX_Can not enter the password when using the HTTP server function			
Keyword	ADAM-60XX, Java, Web Service, HTTP, Password			
Related				
Product				

Problem Description:

The user can't enter the HTTP server when trying to key in the password.

C 🗋 10.0.0.11

ADAM-6051 DIO Mod...

Adam DI Sta					
	Low Byte (Hex)				
Message	PX)				
Please enter your password:					
ОК					
Adam Counter St					
Counter1: 1234567890 (Dec) 0	xFFFFFFFF (H				
Counter2: 1234567890 (Dec) 0	xFFFFFFFF (H				
Host IP:10.0.0.11 Please enter passwor	rd. 🔴				

Enabling an Intelligent Planet

Brief Solution - Step by Step:

AD\ANTECH

This is the compatibility issue between Java Applet and ADAM module.

It's confirmed with 1.7 version of Java Applet, the function can work properly. Please downgrade the version of Java Applet to 1.7, or upgrade the HTML file of ADAM-60XX-CE to the newest version which support HTML5 to prevent this issue.

() () () () () () () () () ()	
檔案(F) 編輯(E) 檢視(V) 我的最美(A) 工具(T) 說明(H) ADAM-6052 DIO Module Adam DI Status ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	▲ Java 控制面板 ● 図 ● 数 運新 Java 安全 進階 檢視和管理 Java 應用程式和 Applet的 Java Runtime 版本及設定。 依視(V) ● Java Runtime Environment 設定 ● 使用者 余統 平台 產品 位置 路徑 程式實際執行参數 已啟用 ● 3 1.80_31 http://java.su ○VProgram FilesNava 1.7 1.70_75 http://java.su ○VProgram FilesNava
Host IP: 10.0.0.52 Please enter password.	尋找(F) 新增(A) 移除(R) 確定 取消
	確定 政治

Advantech AE Technical Share Document

Date	2015/04/08	SR#	1-2042547323
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-60XX_Application Blocked by Security Settings		
Keyword	ADAM-60XX, Security setting, Java, Web service		
Related			
Product	Αυαινι-ουλλ		

Problem Description:

The browser have block message as the follow picture when using the HTTP server function

Application Blo	ocked	X
Application	on Blocked by Security Settings	i
	Ad	
Name:	Adam6018	
Location:	http://172.21.33.179	
Your securi	ity settings have blocked an untrusted application from running	
		ОК



Enabling an Intelligent Planet

Brief Solution - Step by Step:

ADVANTECH

The problem is related to the security setting of JAVA, please refer to the following picture and do the setting accordingly to solve the issue.



🚣 Java Control Panel		- • ×	
General Update Java Security Adv	anced		
Enable Java content in the browser			
Security Level			
	- Very High		
	⊃- High (minimum recommended)		$\mathbf{\lambda}$
	- Medium		
Java applications identified by a certific	ate from a trusted authority will be allowed t	o run.	
Exception Site List			
Applications launched from the sites security prompts.	listed below will be allowed to run after the a	ppropriate	
Click Edit Site List to add items to this list.	Edit Site L	st	
		jcp.ex	
	Restore Security Prompts Manage	Certificates	
Input IP address of your ADAM	Module		
^			

🖆 Exception Site List	×			
Applications launched from the sites listed below will be allowed to run after the appropriate security prompts.				
Location				
http://10.0.0.18	ו			
FILE and HTTP protocols are considered a security risk. We recommend using HTTPS sites where available.				
OK Cancel				

🛓 Java Control Panel				
General Update Java Se	curity Advanced			
🔽 Enable Java content in t	ne browser			
Security Level				
	Very High			
	□ - High (minimum	recommended)		
	- Medium			
Java applications identified	by a certificate from a trustee	authority will be allowed to run		XY
Exception Site List Applications launched fr security prompts. http://10.0.0.18	om the sites listed below will b	e allowed to run after the approp	oriate	
L		← Edit Site List		
	Restore Securit	y Prompts Manage Certif	icates	
		UK Cance		
ADAM-6000 Ethernet-Er	abled DA&C Modules - Win	dows Internet Explorer		
🕒 💬 🗢 🙋 http://10	.0.0.18/			▼ 🗟 4 × 1
🚖 Favorites 🛛 🚔 🔊 Su	ggested Sites 👻 🙋 Web Sli	ce Gallery 🔻		
ADAM-6000 Ethernet-E	nabled DA&C Modules			🐴 🔻 🔊
Security Warn Do you More Infor Click Can	ning want to run this app An unsigned applic run. Location: http://10. mation cel to stop this app or Run to	lication? ation from the location be 0.0.18 allow it to continue.	low is requesting pa	ermission to
				l'

Г

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Warning -	Una	/ailable Version of Java Requested
Û	Thi you Jav Mo	s application would like to use a version of Java (1.4.1) that is not installed on r system. We recommend running the application with the latest version of a on your computer. ore Information
Name		Adam6018
Locati	on:	http://10.0.0.18
		Run with the latest version Cancel

ADAM-6018 Thermocouple Module

	[K Type]	[K Type]	[K Type]	[K Type]	[K Type]	[K Type]	[K Type]	[K Type]	[Disable]
Normal	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000
Max	00.000	00.00 Me	essage —]	00.000	00.000
Reset	Ch0	Ch P	lease ei	nter you	r passwo	ord:		Ch7	Ch8
Min	00.000	00.00			ОК]	00.000	00.000
Reset	Ch0	Ch	I			رما 		Ch7	Ch8
	Eng	C Hex							
Adam D	O Status -								
- 🍎	- 0	<u> </u>	- 0	- 0	- 0	- 0	- 0	Low	Byte (Hex
	D01	DO2	DO3	DO4	DO5	DO6	DO7		



Advantech AE Technical Share Document

Date	2015/04/13	SR#	1-2042604952
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-60XX and ADAM-6	52XX_What's the	function of communication watch dog
ADSUACE	timer		
Keyword	ADAM-60XX, ADAM-62XX	K, WDT, Host Idle	Timeout
Related	ADAM COVY and ADAM		
Product		0277	

Problem Description:

This documentation explains the communication WDT function

Brief Solution - Step by Step:

As the described in the following picture, when the communication between controller and ADAM is fine, there will be the packet transmitted and received periodically.



When the communication is down, with the help of communication WDT, user can turn on or turn off the output within a particular period to prevent unstable or dangerous output status.

User just need to set the host idle and enable the communication WDT in the utility. The output will be turned on or off according to the setting in the utility.

Information Network St	ream Administration Firmware	Peer to Peer/F	
-Network Setting			
MAC Address:	00-D0-C9-FF-FF-A9		
IP Address:	10.0.0.66		
Subnet Address:	255.0.0.0		
Default Gateway:	0.0.0.0		
Host Idle (Timeout):	5	second(s)	
ADAM-6250 15-ch isolated digita	l I/O module	Locate Enable	
Channel setting Modbus		1	
DIO	DI 6	DO 4 🛛 🗖 FSV	
DI 1	DI 7	DO 5 📄 🗖 FSV	
DI 2		D0 6 🔽 FSV	
DI 3	DO 1 🗖 FSV		
DI 4	DOZ 💿 🗖 FSV		
DI 5	DO 3 🔽 🗖 FSV		
The Fail Safe Value (FSV) of a Each DO will switch to its FSV FSV obselved - Logic High Se	communication WDT. If the module's WDT is enabled and it g the FSW unshabled - Logic Low State	ets triggered.	
Communication WDT	P2P/OCL WD1	Apply FSV	

Advantech AE Technical Share Document

Date	2015/04/13	SR#	1-2048753834	
Category	■FAQ □SOP	Related OS	N/A	
Abstract	ADAM-60XX and ADAM-62XX_Can't find the module with the utility			
Keyword	ADAM-60XX, Search module, Utility			
Related				
Product				

Problem Description:

The user may forget the IP address of a particular ADAM module and can't find it with the search function in the utility.

This documentation explains how to find the module when you forget the IP address of the module.

Brief Solution - Step by Step:

AD\ANTECH

The problem may be related to the improper network setting parameter like IP with different network domain within the PC, invalid default gateway.

We would suggest the customer download the <u>newest version of the utility</u> and try again, the module should appear in the "other" tabs of the utility and you could set it to the same network domain as your PC then do the search again,

File Tools Setup Help				
 Serial COM1 COM3 Ethernet 100.0.60-[WA-A6060] 10.0.76-[ADAM-6066(\$W)] 172.18.3.44 172.18.3.18-[WISE-4012E] 172.18.3.16-[ADAM-5000 TCP-BE] 172.18.3.172-[WA-A6050] 172.18.3.172-[WA-A6050] 172.18.3.205-[WISE-4060/LAN] 172.18.3.235-[WA-A6052] 172.18.3.235-[WA-A6052] 172.18.3.235-[WA-A6015] 172.18.3.236-[WA-A6015] 172.18.3.235-[WISE-4060/LAN] 172.18.3.235-[WISE-4050] YIZ.18.3.244-[WISE-4012E] 172.18.3.244-[WISE-4050] YIZ.18.3.244-[WISE-4050] WIRE Sonson Networks 	Setting Network setting:	00-D0-C9-F4-50-07 192.168.1.100 255.255.255.0 192.168.1.254	Ethernet Mode Configured	

If the problem still exist and can't get the IP of ADAM module, you may need to use Wireshark to capture to packet when the module is power-up.

For the information about how to use Wireshark, please refer to FAQ *"IAG_SOP_ADAM-60XX and ADAM-62XX_How to use Wireshark to collect the packet"*.

As the following picture, user can find the IP address of ADAM with the ARP packet. The packet in the picture indicateds that the IP of ADAM is <u>192.168.1.100</u>, user can modify the IP of PC's network card to the same network domain as ADAM then use utility to do the seahch again.

<u> </u>	區域連線 2 [Wireshark 1.10	0.7 (v1.10.7-0-g6b931a1 fro	m master-1.10)]		Construction of the Association
<u>F</u> ile	<u>E</u> dit <u>V</u> iew <u>G</u> o <u>C</u> aptu	re <u>A</u> nalyze <u>S</u> tatistics Te	ephon <u>y T</u> ools <u>I</u> nternals	<u>H</u> elp	
0	🖲 📕 🔏 🖿	🗟 🗶 🔁 🔍 🔶 🔶	🥹 주 🕹 🗐 🖃 🛛	\oplus \bigcirc \oplus	1 🖬 🖬 🕵 🎉 💢
Filter	er:		 Express 	ion Clear	Apply Save
No.	Time	Source	Destination	Protocol Ler	nath Info
	1 0.000000000	10.0.0.100	10.0.0.255	DB-LSP-	168 Dropbox LAN sync Discovery Protocol
(1 0.00000000 2 5.503433000	10.0.0.100 Advantec_f4:50:07	10.0.0.255 Broadcast	DB-LSP- ARP	168 Dropbox LAN sync Discovery Protocol 60 Gratuitous ARP for 192.168.1.100 (Request)
(1 0.00000000 2 5.503433000 3 6.503341000	10.0.0.100 Advantec_f4:50:07 Advantec_f4:50:07	10.0.0.255 Broadcast Broadcast	DB-LSP- ARP ARP	168 Dropbox LAN sync Discovery Protocol 60 Gratuitous ARP for 192.168.1.100 (Request) 60 Gratuitous ARP for 192.168.1.100 (Request)
(1 0.00000000 2 5.503433000 3 6.503341000 4 7.503256000	10.0.0.100 Advantec_f4:50:07 Advantec_f4:50:07 Advantec_f4:50:07	10.0.0.255 Broadcast Broadcast Broadcast	DB-LSP- ARP ARP ARP	168 Dropbox LAN sync Discovery Protocol 60 Gratuitous ARP for 192.168.1.100 (Request) 60 Gratuitous ARP for 192.168.1.100 (Request) 60 Gratuitous ARP for 192.168.1.100 (Request)
(1 0.00000000 2 5.503433000 3 6.503341000 4 7.503256000 5 8.503231000	10.0.0.100 Advantec_f4:50:07 Advantec_f4:50:07 Advantec_f4:50:07 Advantec_f4:50:07	10.0.0.255 Broadcast Broadcast Broadcast Broadcast	DB-LSP- ARP ARP ARP ARP	168 Dropbox LAN sync Discovery Protocol 60 Gratuitous ARP for 192.168.1.100 (Request)

Date	2015 / 09 / 04	SR#	1-2215179503	
Category	■FAQ □SOP	Related OS	N/A	
Abstract	ADAM-6000 & 6200 How to detect the change of DI status			
Keyword	.NET class library, DI, P2P, change of status			
Related				
Product	ADAIVI-60XX, ADAIVI-62X	N		

Problem Description:

A customer build their own application to acquire the data status from the I/O ports on ADAM-6050, every change of status is recorded by computer with SQL database. According to the customer's description, the device mounted on machine records 15-17 cycles but database only shows 13-14 cycles.

What's the possible reason for the missing cycle? Is there any way to improve the system structure so that SQL database may record the situation of change of status correctly?

Brief Solution- Step by Step:

For the customer's application structure, the computer acts as a Modbus/TCP master to poll the I/O status from ADAM periodically. (The picture on the right-hand side.)

The problem of customer's structure is that when the DI status change between two polling intervals, the host will not know. For example, if the polling interval is set at 500ms, and the DI initially at logic0, change between 0 and 1 for five times during the 500ms interval and finally stay at 1. The controller may only get ONE change of status.

To solve the question, we will suggest the customer take the advantage of the P2P function of ADAM-6000 and ADAM-6200 series.

Modbus/TCP Master





Modbus/TCP Slave

With "change of state" function, besides the periodical updated I/O status, the module will automatically send out the UDP packet to the host when detecting the DI status changing from 0 to 1 or 1 to 0.

AD\ANTECH

Here's the detail setting procedure:

<u>1. Enable the P2P function in the utility.</u>

Please note that the ADAM module can't use BOTH GCL and P2P function at the same time, must disable the GCL function first to enable the P2P.

2. Select the channels and enter the IP of PC as the destination IP.

□ Serial □ COM1 □ COM3 □ Bitemet □ 100.0.168 □ 100.0.155 □ 6051 □ 6051 □ 172.18.3.41 □ 172.18.3.166-[ADAM-6017] □ 01ers □ Provorite Group ■ ADAM4500_5510Series ■ Wireless Sensor Networks	Information Network RS-485/WDT Stream Password Firmware Peer to Peer/Event Access Control Mode © Basic © Advanced © Disable Apply Basic (One to One) Period time: 5 ÷ second(s) Enable Change of State 🔽 (C.O.S.) Source [Source] IP: 10.0.0.155 Modify channel enable
	Channel Enable I Yes I Kefresh Save Load Apply list

3. Test with utility.

User can use the "Monitor Peer to Peer"

tool in the utility to test the result.



Like the following picture, user should be able to see two kinds of different packet; one is the

period data that updated to the host while the other packet is updated during the DI change

status.

🚱 Peer to Peer (Event Trigger)		×
Peer to Peer (Event Trigger) Port (Default:1025): 1025 History Mssage 02:52:01 Start listening 02:52:05 PackageNum: 1 FuncCode: 0x0F ChannelMask: 0x00003FFF Packet Type: C.O.S. Data: 0xFE, 0x3F, 0x00, 0x00 02:52:05 PackageNum: 2 FuncCode: 0x0F ChannelMask: 0x00003FFF PackageNum: 2 FuncCode: 0x0F ChannelMask: 0x00003FFF Packet Type: C.O.S. Data: 0xFF, 0x3F, 0x00, 0x00 02:52:05 PackageNum: 2 FuncCode: 0x0F ChannelMask: 0x00003FFF Packet Type: C.O.S. Data: 0xFF, 0x3F, 0x00, 0x00 02:52:09	Current Information Receive Num 3 Function Code 15 Channel Value 0 True 1 True 2 True 3 True 4 True 5 True 6 True 8 True 9 True 10 True	Stop C.O.S. Flag False
PackageNum: 3 FuncCode: 0x0F ChannelMask: 0x00003FFF Packet Type: Period Data: 0xFF, 0x3F, 0x00, 0x00	11 True 12 True 13 True	False False False

User can also develop their API based on the library and sample code we provide.

The example program for P2P can be found in the following location once .NET class library is

installed properly.

C:\Program Files (x86)\Advantech\AdamApax.NET Class Library\Sample

Code\ADAM\Win32\CSharp\Others\P2P_UdpEvent

Advantech AE Technical Share Document

Date	2015/04/13	SR#	1-2042266876	
Category	■FAQ □SOP	Related OS	N/A	
Abstract	ADAM-60XX_What's the difference between ADAM-60XX BE and CE version			
Keyword	ADAM-60XX, BE, CE, Change notice, Comparison table			
Related				
Product				

Problem Description:

This documentation explains the difference between ADAM-60XX BE and CE version.

Brief Solution - Step by Step:

Reason of Product Change

Key component phase-out: The part, Samsung ARM 7, is no longer supplied by our vendor since 2012 and the production of ADAM-60XX-BE is thus influenced.

New Function/Feature Highlight

Many function/features enhancement are implemented to the revision of ADAM-60XX-CE, including DHCP, Group Configuration, User-defined Modbus Address, Rest to Default, and HTML 5-based Web Server.

User-defined Modbus Address

In order to provide a more flexible and scalable way in deploying ADAM modules, in the revision of ADAM-6000 module the Modbus address setting can be configurable by users. There're two kinds of Modbus address section (0X and 4X). For both address sections, users can configure the Modbus address of specified I/O functions to fit their applications. For example, the below screenshot is Modbus address setting page of a DI/O module.

I tem I enoth Base					17 17		1
Item	Length	Base		Item	Length	Base	
DI status	14	0001	▶	Counter frequency	28	0001	
DO status	02	0017		Pulse output low level width	04	0029	
Counter switch	56	0033		Pulse output high level width	04	0033	
Clear GCL counter	08	0089		Set absolute pulse	04	0037	
				Set incremental pulse	04	0041	
				Module name	02	0211	
				DI status	01	0301	
				DO status	01	0303	
				GCL flag	01	0305	
				GCL counter	16	0311	
					Refresh	Apply	

Information Network Stream Administration Firmware Peer to Peer/Event Access Control Modbus Address

Reset to Factory Default

Users can clear all the configuration and settings of the ADAM-6000 module to its factory default in the ADAM.Net Utility. It helps when an ADAM module is re-used for a new project after being configured in the past.

Information Network Stream	Administration Firm	ware Peer to Peer/Event	Access Control Modbus Address
-Password Setting			
Old password:		Apply change	
New password:		Reset password	
Verify password:			
-Reset to Factory Defaults —			
Apply			
—System Restart —			
Apply			

HTML 5 Web Server*

The revisions of ADAM-6000 integrates the latest Web language (HTML 5) and Web-based software style (REST) with basic authentication for users to remotely acquire I/O data in any Web service of smart device without routing from SCADA system, for example, user can use Web browser of smart phone/pad to remotely access I/O module via HTTP. The steps to do that are 1) Connect PC/smart phone/pad to the network where the ADAM-6000 is.

2) Open a web browser and key-in ADAM-6000's IP as direction

3) Log in and get access to the I/O on ADAM-6000 module (default user name: root, password: 00000000)

And the web server run on a smart phone is shown below:



Furthermore, the default web server can be exported in the ADAM.Net Utility and further modified by editing REST access instructions.

*Note: To be consistent with its previous version, the default web server on ADAM-60XX-CE is not HTML 5 based one. Users can download the latest web server (.html file) on its <u>product page</u> and import it to ADAM-60XX module.

Group Configuration

In certain application scenarios, it's necessary to set multiple modules with the same settings for doing the same tasks on different sites. Users have to set configurations of module one after another before on-site deployment. During maintenance, it also requires repetitive effort to carry out firmware updates for multiple modules. The revision of ADAM-6000 is equipped with Group Configuration function which allows users to configure multiple modules at the same time. The configuration file can be exported and download in the ADAM.Net utility and it includes settings of *Device Information, General Information, P2P & Streaming, GCL Setting* and *Modbus Address XML file.* The installation time for a system with many ADAM modules can be greatly. Also, the module firmware file and HTML web server file can deploy to multiple modules at the same time.

Comparison Table

Besides covering ADAM-60XX-BE's functions, ADAM-60XX-CE is designed to provide more intelligence and features for users. The main function differences are listed in the following comparison table:

	ADAM-60XX-BE	ADAM-60XX-CE	
DHCP*	Not supported	Supported	
Peer-to-peer	Supported	Supported	
GCL (Graphic Condition Logic)	Supported	Supported	
User-defined Modbus	Not supported	Supported	
Address*	Not supported		
Reset to Factory Default*	Not supported	Supported	
HTML 5 Web Server*	Not Supported	Supported	
Group Configuration*	Not supported	Supported	

* These functions can only be operated in the updated ADAM.Net Utility which will be explained in the *Operation Notice* session.

Operation Notice

In the hardware point of view, the operations of ADAM-60XX-BE and ADAM-60XX-CE are the same, as they share the same I/O connector with identical pin assignments.

In the software point of view, the firmware of ADAM-60XX-BE and ADAM-60XX-CE are different and they are not exchangeable as they run in different hardware structure. By checking the firmware versions in the ADAM.Net Utility, you can tell the module versions.

Model Name	Firmware Version	
ADAM-60XX-BE	Lower than V5.00	
ADAM-60XX-CE	V5.00 or higher	

An updated ADAM.Net Utility is also provided to facilitate new functions ADAM-60XX-CE provides. To be able to use all the functions of ADAM-60XX-CE, please install ADAM.Net Utility with version higher than V2.05.05. If an old version ADAM.Net Utility is installed in the platform, please remove it first and then install the newer version to make sure a complete installation. The newer version Utility (V2.05.05 or higher) can support both ADAM-60XX-BE and ADAM-60XX-CE.

The latest version of firmware and ADAM.Net Utility for ADAM-60XX can always be downloaded in its <u>product page</u>.

Advantech AE Technical Share Document

Date	2016/06/27	SR#	1-2495023181
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-60XX & ADAM-62XX, How does Utility to list ADAM modules?		
Keyword	IP, MAC Address, Utility		
Related			
Product	ADAM-6000, ADAM-6200		

Problem Description:

This document shows how does Utility to list ADAM modules?

Answer:

When Utility search the Ethernet module (ADAM-6000, ADAM-6200 series), it lists the module in the left side. What's the order of them? If IPs of each module is different, Utility can list them by the descending order. If the IP is the same, Utility lists them refer to Mac Addressing by descending order. The following test shows that:

Module: ADAM-6256, Mac Address: 00-D0-C9-F3-DA-6D Module: ADAM-6250, Mac Address: 00-D0-C9-F5-B3-17 Module: ADAM-6050, Mac Address: 00-D0-C9-F4-B1-9F

IP is different.	IP is the same.
Serial COM1 COM3 COM4 Ethemet 172.18.3.38 172.18.3.104-[WISE-4060/LAN] 100.0.1 100.0.2-[ADAM-6256] 10.0.0.3-[ADAM-6250_AOnlineAE] 10.0.0.4-[ADAM-650] 172.18.6.31 Others Favorite Group ADAM4500_5510Series Wireless Sensor Networks	□ Serial □ COM1 COM3 COM4 □ I72.18.3.38 □ I72.18.3.104-[WISE-4060/LAN] □ I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 □ I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 I0.0.0.5 IO.0.0.5 I0.0.0.5 IO.0.5 I0.0.0.5 IO.0.5 I0.0.0.5 IO.0.5 I0.0.0.5 IO.0.5