Date	2015/07/21	2015/07/21 SR# 1-2138208957					
Category	□FAQ ■SOP Related OS N/A						
Abstract	Configure ADAM-6100EI Module in RSLogix 5000						
Keyword	ADAM, EthernetIP, RSLogix,						
Related							
Product	ADAM-61XXEI Series						

#### Problem Description:

This document demonstrates the SOP of how to configure ADAM-6100EI Module in RSLogix 5000

### Brief Solution - Step by Step:

- a) Use RSLinx to Configure Driver
- b) Add Controller and ADAM-6100EI Module in RSLogix
- c) Add ADAM-6100El Module by Utility

### a) Use RSLinx to Configure Driver

1. Open RSLinx and click [Configure drivers] button



2. Select [Available Driver Types: EtherNet/IP Driver] and click [Add New...]

afigure Drivers		?
Available Driver Types:		Close
EtherNet/IP Driver	<u>▼</u> <u>A</u> dd New	L <u>Liss</u>
Configured Drivers:		
Name and Description	Status	Configure
		Configure
		Startup
		Startup <u>S</u> tart

3. Assign a name and click [OK]



4. Choose the network card that connected to PLC and click [OK]

Configure driver: AB_ETHIP-1	? 🛛	
EtherNet/IP Settings		
🕫 Browse Local Subnet 🦳 Browse Remote Subnet		
Description	IP Address	
Windows Default Realtek R TL8139 Family PCI Fast Ethernet NIC #3 - Packet Scheduler Realtek R TL8139 Family PCI Fast Ethernet NIC - Packet Scheduler Mi	unknown	
Rediek K Ibol 55 Failing I GI Fast Eulernet NIG - Facket Scheuther MI	10000111	
確定 取消 4		

### 5. The driver have been added and running

onfigure Drivers		?
Available Driver Types:		Close
EtherNet/IP Driver	▼ <u>A</u> dd New	<u>H</u> elp
Configured Drivers:		, <u> </u>
Name and Description	Status	
AB_ETHIP-1 A-B Ethemet RUNNING	Running	Configure
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Startup
		<u>S</u> tart
		Stop
		Delete

b) Add Controller and ADAM-6100EI Module in RSLogix

1. Open RSLogix 5000 and click [New] button

😤 RSLogix 5000	
<u>File Edit View Search Logic Communications Tools Window H</u> elp	
	💽 🖉 🏨 🖭 😰 💌 🔍 🔍 🧱 Path: AB_ETHIP-1\
No Forces C BAT No Edits E I/O Redundancy 5.0	H Im Im I + ++ + + + + + + + + + + + + +
Star Page	

2. Select PLC type and give the project a name then click [OK]

ype:	1769-L32E CompactLogix5332E Controller	•	OK
Re <u>v</u> ision:	17 💌		Cancel
	📕 Redundancy Enabled		Help
la <u>m</u> e:	ADAM6100EI_Demo		
escri <u>p</u> tion:		^	
		~	
hassis Type:	(none)	+	
il <u>o</u> t:	0 💼 Safety Partner Slot:		
Cr <u>e</u> ate In:	C:\RSLogix 5000\Projects\ADAM-6100EI		<u>B</u> rowse

3. Right click [Ethernet] under PLC in the tree and click [New Module...]

a RSLogix 5000 - ADAM6100EI_Demo [1769-L32E]	
<u>File Edit View Search Logic Communications Tools Window H</u> elp	
	- <b># 4 %</b> F <b>2 8</b> QQ
Offline D. RUN No Forces D. DK No Edits DE I/O	
Motion Groups Ungrouped Axes Add-On Instructions Data Types Muser-Defined Strings Add-On-Defined Module-Defined Module-Defined Trends No Configuration Backplane, CompactLogix System 1769-L32E Ethemet Port LocalENB CompactBut New Module Paste Ctrifty	
Create a module	

4. Choose [Communications \ ETHERNET-MODULE] and click [OK]

odule E Communicatio	Description	Vendor
- Digital		
<ul> <li>Drives</li> <li>HMI</li> </ul>		

Module	Description		Vendor
<ul> <li>1768-ENBT/A</li> <li>1768-EWEB/A</li> <li>1769-L23E-QB1 E</li> <li>1769-L23E-QBFC</li> <li>1769-L32E Etheme.</li> <li>1769-L35E Etheme.</li> <li>1788-EN2DN/A</li> <li>1788-ENBT/A</li> <li>1788-ENBT/A</li> <li>1788-EWEB/A</li> <li>1794-AENT/B</li> <li>Drivelogix5730 Et</li> <li>ETHERNET-BRI</li> <li>ETHERNET-MO</li> <li>EtherNet/IP</li> </ul>	10/100 Mbps Ethernet Port on CompactLo; 10/100 Mbps Ethernet Port on CompactLo; 10/100 Mbps Ethernet Port on CompactLo; 1788 Ethernet to DeviceNet Linking Device 1788 10/100 Mbps Ethernet Bridge, Twiste 1788 10/100 Mbps Ethernet Bridge w/Enha 1794 10/100 Mbps Ethernet Adapter, Twist 1794 10/100 Mbps Ethernet Adapter, Twist	anced Web Serv gix5323E-QB1 gix5323E-QBF gix5332E gix5335E e ed-Pair Media anced Web Serv ted-Pair Media ted-Pair Media	Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley
		<u>F</u> ind	Add Favorite
By Category By V	endor Favorites		

5. Give module a name. Here use ADAM-6160EI as example. Fill in the [Comm Format], [IP Address], and [Connection Parameters]. For digital I/O module, both input and output size are 1; for analog module, both size are 8. Click [OK]

Type: Vendor:	ETHERNET-MODULE Ge Allen-Bradley	neric Ethernet Module			
Parent:	LocalENB				
Na <u>m</u> e:	ADAM6160EI	Connection Pa	rameters		
Description:			Assembly Instance:	Size:	
<u>-</u>			102	1	÷ (16-bit)
		O <u>u</u> tput:	101	1	÷ (16-bit)
	t Data - INT	<u>C</u> onfiguration	100	0	* (8-bit)
Address / H		. 160 Status Input:			
C Host N	ame:	Status Outpu	t: 🔽		

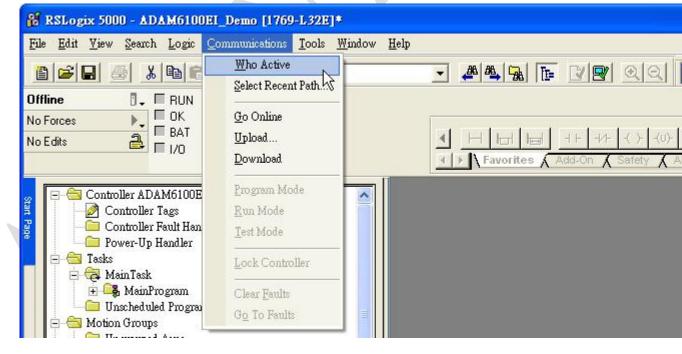
### AD\ANTECH

### Enabling an Intelligent Planet

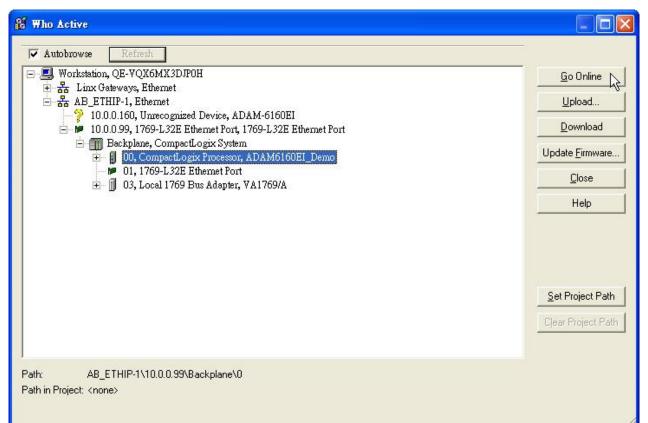
6. Setting [Connection] and click [OK]

Module Properties: LocalENB (E)	(HERNET-MOD)	ULE 1.1)		
General Connection Module Info <u>R</u> equested Packet Interval (RPI): <u>Inhibit Module</u> <u>Major Fault On Controller If Connect</u>	10.0 <mark>÷</mark> ms (1.0	) - 3200.0 ms)		
Status: Offline	ОК	Cancel	Apply	Help

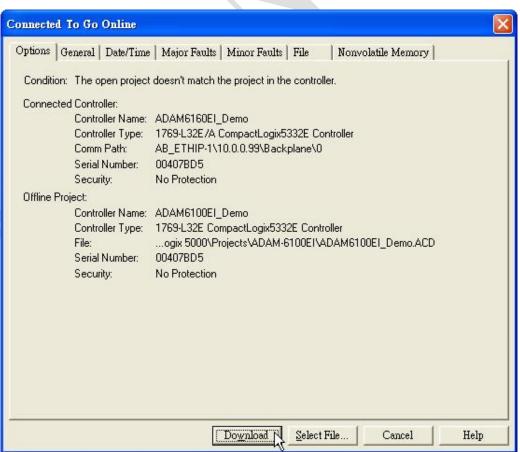
7. Click [Communication \ Who Active]



8. Choose the Processor and click [Go Online]



#### 9. Click [Download]



# AD\ANTECH

10. Click [Download]

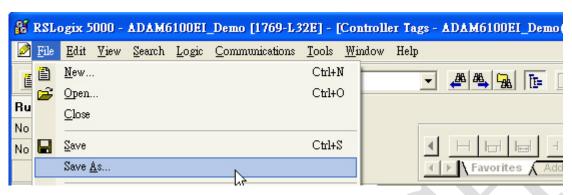


- 11. Switch PLC to [RUN] and change ADAM-6100EI module to [Normal] mode
- 12. Click [Controller Tags] to monitor the state of module
- 13. Give the value [255] to [ADAM6160EI:O.Data[0]] to on all the outputs

<ul> <li>RSLogix 5000 - ADAM6100EI_Demo [1769-L32E]*</li> <li>File Edit View Search Logic Communications Tools</li> </ul>			ADAM6100EI_Demo(c	ontroller)]		
	<u>w</u> hiao,	• Help		<u> </u>	Path: AB_E	THIF
Run     Run Mode       No Forces     Controller OK       No Edits     House		<b>.</b>	Favorites Add-Or	+/+   -( )-   -(0) A Safety A	+ (L)- Alarms <b>X</b> Bit <b>X</b> Ti	) mer/
22 Ep - Controller ADAM6100EI_Demo	~	Scope:	] ADAM6100EI_D 💌 🔜	Show Sho	w All	
Controller Fault Handler	122	Name	۵	Value 🔶	Force Mask	Sty
Power-Up Handler		+ ADAM	6160EI:C	()	()	
			6160EI:I	()	()	
			6160EI:O	{}	()	ł
😥 🕞 MainProgram			AM6160EI:O.Data	{}	()	De
🖻 😁 Motion Groups			DAM6160EI:0.Data[0]	255		De
			ADAM6160EI:0.Data[0].0	ł	Ъ́	De
Add-On Instructions			ADAM6160EI:0.Data[0].1	1		De
🖉 🔤 🔤 User-Defined			ADAM6160EI:0.Data[0].2	1		De
🕀 🕞 Strings			ADAM6160EI:0.Data[0].3	1		De
Add-On-Defined			ADAM6160EI:0.Data[0].4	1		De
			ADAM6160EI:0.Data[0].5	1		De
- 🛅 Trends			ADAM6160EI:0.Data[0].6	1	6	De
<ul> <li>⊟ - Si I/O Configuration</li> <li>⊟ - III Backplane, CompactLogix System</li> </ul>			ADAM6160EI:0.Data[0].7	1		De
E - H Backplane, CompactLogix System		• • \Mo	nitor Tags ( Edit Tag	(s /	•	1
Ready					Alternation and a second s	

c) Add ADAM-6100EI Module by Utility

1. Click [File \ Save As...]



2. Save file as type [\*.L5K] and click [Save]

另存新檔				
儲存於①:	DAM-610	OEI	- E 💣	
3000000000000000000000000000000000000				
<b>日</b> 点面				
夏 我的電腦				
網路上的芳鄰	File <u>n</u> ame:	ADAM6100EI_Demo	•	儲存③
	Save as <u>t</u> ype:	RSLogix 5000 Import/E	xport File (* L5K) 🗾 💌	取消以
				Help

- 3. Switch ADAM-6100EI module to [Init] mode
- 4. Open Adam/Apax .NET Utility and search the module

Advantech Adam/Apax .NET Utility (Win32) Version 2.02.19							
<u>File T</u> ools <u>S</u> etup <u>H</u> elp							
🕒 🔜 🤏 📽 🖉 🕨 🔟 📃							
COM1	Information		^				
Ethemet	Host name:		_				
0 10.0.0.111 Others	pter:	10.0.0.111					
ADAM4500_ Add Devices to a a contract of the second	Aroup	2000 ms					
<ul> <li>Favorite group</li> <li>Wireless Sensor Networks</li> </ul>	Send timeout:	2000 ms					

5. Click [Generate] button under [L5K file generator] tab

🗙 Advantech Adam/Apax .NET Utility	(Win32) Ver	sion 2.02.19			
<u>File T</u> ools <u>S</u> etup <u>H</u> elp					
🕒 🔜 🤊 🧌 🖋 🕨 💼 🔛					
Serial COM1 Behemet 192.168.1.123 10.0.0.111 Conterned Others ADAM-6150EI COM1 COM1 Favorite group Wireless Sensor Networks	Informati Auto ID 0	on Setting [L5K Module Name ADAM6150EI	file generator       Description       8-ch IDI and 7-ch IDO Module	Start Address 1	Length (Word)

6. Open the [\*.L5K] file that have just been saved, and click [OK] to finish. <u>Remember to</u> <u>switch the module</u>

開啓					?
查詢(I)	: 🔁 ADAM-610	OEI	•	= 🗈 💣 📰 -	
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	檔名(N):	ADAM6100EI_Demo.L	5K	•	開啓(0
	檔案類型(T):	RS Logix 5000 files (*.)	L5K)	*	取消



7. Click [Open] button in RSLogix 5000



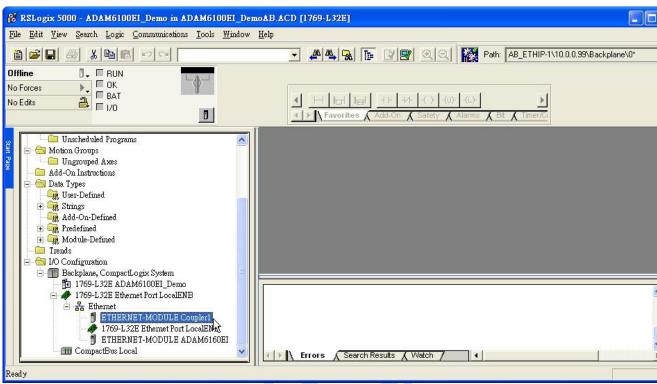
8. Select the [\*AB.L5K] file that have been add the word "AB" and click [Open]

Open/Import Pro	oject						
查詢(]):	DADAM-610	0EI	•	+	<b>E</b> (	* 💷 *	
<ul> <li>裁最近的文件</li> <li>人間     </li> <li>人間      <li>人間     <li>人間      <li>人間     </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li>人間     </li> <li>人間      </li> <li>人間      </li> <li>人間      </li> <li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></ul>	MADAM6100E	IL_Demo.ACD IL_Demo.L5K IL_Demo_BAK000.acd IL_Demo_BAK001.acd IL_DemoAB.L5K					
網路上的芳鄰	File <u>n</u> ame: Files of <u>ty</u> pe:	ADAM6100EI_DemoAH All RSLogix 5000 Files		5K <b>,</b> *.	L5X,'	• •	開啓(O) 取消 Help

9. Click [Import] to save the imported file

Save Imported P	roject As					×
	-	n of the project file to creat	e.		_	
查詢():	C ADAM-610	0EI	-	← 🖻 🗗		
G	ADAM6100E	EI_Demo.ACD EI_Demo_BAK000.acd				
我最近的文件	-	EI_Demo_BAK001.acd				
<b></b> <u> </u>						
来面						
<b>夏</b> 我的電腦						
<b></b>						
網路上的芳鄰	File <u>n</u> ame:	ADAM6100EI_DemoA	BACD	•	Impo	rt L
	Files of type:	RSLogix 5000 Project	Files (*.ACD)	•		
					Help	

10. The module have been added and named as coupler double click the module to edit



11. [Comm Format], [IP Address], and [Connection Parameters] have been set automatically, user can rename the module as following figure

🔲 Module Pro	perties: LocalENB (ETHERNET	MODULE 1.1)		X
General <sup>*</sup> Cor Type: Vendor: Parent: Na <u>m</u> e: Descri <u>p</u> tion:	ETHERNET-MODULE Generic Ether Allen-Bradley LocalENB ADAM6150EI	net Module Connection Para Input: Output: Configuration:	Assembly Instance: 102 101	Size: 1  (16-bit) 1  (16-bit) 0  (8-bit)
Address / H	ess: 10 . 0 . 0 . 50	Status Input: Status Output:		