Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A	
Abstract	WISE-40XX, How to use DIO function with library sample code			
Keyword	WISE, Comparison table, disconnection, system log			
Related	WHEE 4012 WHEE 4012E WHEE 4050 WHEE 4051 WHEE 4050			
Product	wise-4012, wise-4012e, , wise-4050, wise-4051, wise-4060			

Problem Description:

There are only DI bottoms in .NET library sample code provided by Advantech after installed. What should I do if my module has DO? How to test DO function?

Brief Solution:

After installed the .NET library sample code provided by Advantech from following link: <u>http://support.advantech.com.tw/Support/DownloadSRDetail_New.aspx?SR_ID=1-1WMBN3</u> <u>&Doc_Source=Download</u>

Step 1. Check the IP of WISE,

TP-LINK [®]					
產品款意 快速交装薪畫 WPS	DHCI	P用戶端列表			
網路設定	編號	使用者名辑	MAC位址	分配的P	使用時間
無線網路	1	Unknown	00-D0-C9-CC-00-12	192.168.0.103	01:21:53
DHCP伺服器	_				
- DHCP间服器設定 - DHCP客戶端列表	3	Unknown	00-D0-C9-F7-0C-85	192.168.0.101	01:59:46
- 保留指定IP位址					
通訊埠導向(NAT)			重新整理		
安全性設定					
未成年子女上纲管理					
網路使用確果規則管理					
固定路由					
頻宜管理					
ARP绑定					
DDNS設定					
余統工具					

Step 2. Open the solution of the sample code of "WISE-40XXDIO"





Step 3. Make 3 changes in the code.

(A) The IP address of WISE according to step one.

// TODO: Add any constructor code after InitializeComponent call
//
m_bStart = false; // the action stops at
m_szIP = "192.168.0.101"; // device IP address
m_iFort = 80, // http port is 80
m_szAccount = "root"; // Login account
m_szPassword = "00000000"; // Login password
m_iPollingTime = 1000;
m_iSlot = 0; //Device localhost default slot is 0

(B) Change the model name corresponds with the one you are using.

//m WISE4000Type = WISEType WISE4050LAN: // the sample is for WISE-4050/LAN
m WISE4000Type = WISEType.WISE4050; // the sample is for Wise-4050
//m_WISE4000Type = WISEType.WISE4051; // the sample is for Wise-4060/LAN
//m_WISE4000Type = WISEType.WISE4060; // the sample is for Wise-4060

(C) Modify the UI according to the module. WISE-4050 is used in this example. This module has 4-ch of DI and 4-ch of DO.

protected void IniWISE_DIO()	
i int iNI = 0 iNO = 0.	
InitChannelltems(true, true, ref iDI, re	f iDO, ref panelChO, ref btnChO);
InitChannelItems(true, true, tef iDI, re	f iDO, ref panelCh1, ref btnCh1);
InitChannelItems(true, true, ref iDI, re	f iDO, ref panelCh2, ref btnCh2);
InitChannelItems(true, true, ref iDI, re	f iDO, ref panelCh3, ref btnCh3);
InitChannelItems(true, false, ref iDI, r	ef iDO, ref panelCh4, ref btnCh4);
InitChannelItems(true, false, ref iDI, r	ef iDO, ref panelCh5, ref btnCh5);
InitChannelItems(true, false, ref iDI, r	ef iDO, ref panelCh6, ref btnCh6);
InitChannelItems(true, false, ref iDI, r	ef iDO, ref panelCh7, ref btnCh7);
InitChannelItems(false, true, ref iDI, r	ef iDO, ref panelCh8, ref btnCh8);
InitChannelItems(false, true, ref iDI, r	ef iDO, ref panelCh9, ref btnCh9);
InitChannelItems(false, true, ref iDI, r	ef iDO, ref panelCh10, ref btnCh10);
InitChannelItems(false, true, ref iDI, r	ef iDO, ref panelCh11, ref btnCh11);
m_iDoTotal = iDO;	
m_iDiTotal = iDI;	
}	

Explanation:

The function "InitChannelItems()" is defined in another subroutine (green box). So, the first

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parameter is to set the UI visible or not, and the second parameter is to set this bottom and text box work as DI or DO function.

e	protected void InitChannelItems(bool i_bVisable, bool i_bIsDI, ref int i_iDI, ref int i_iDO, ref Panel panelCh, ref Button btmCh)
	<pre>protected void IniWISE_DIO() { int iDI = 0, iDD - 0; InitChanmelltems(true, true, ref iDI, ref iD0, ref panelCh0, ref btnCh0); InitChanmelltems(true, true, ref iDI, ref iD0, ref panelCh1, ref btnCh1); InitChanmelltems(true, true, ref iD1, ref iD0, ref panelCh2, ref btnCh2); InitChanmelltems(true, true, ref iD1, ref iD0, ref panelCh3, ref btnCh3); InitChanmelltems(true, false, ref iD1, ref iD0, ref panelCh5, ref btnCh3); InitChanmelltems(true, false, ref iD1, ref iD0, ref panelCh5, ref btnCh5); InitChanmelltems(true, false, ref iD1, ref iD0, ref panelCh5, ref btnCh5); InitChanmelltems(true, false, ref iD1, ref iD0, ref panelCh6, ref btnCh6); InitChanmelltems(true, false, ref iD1, ref iD0, ref panelCh6, ref btnCh6); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh7); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh9, ref btnCh6); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh9, ref btnCh6); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh9, ref btnCh6); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh9, ref btnCh6); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh9, ref btnCh10); InitChanmelltems(false, true, ref iD1, ref iD0, ref panelCh1, ref btnCh11); m iDflotal = iD0; m iDiTotal = iD0; </pre>
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Step 4. After all the related setting and modification are done, please save the project and build the solution.



Step 5. Execute the .exe application, and user can monitor DI/DO of WISE-4050.

	WISE40XXDIO sample program (C#)			
	Module name:	WISE4050		Stop
	Read count:	Request http 77 t	imes	
	DIO	0	DO 2	1
	DI 1	0	DO 3	0
-	DI 2	0		
	DI 3	12		
	DOO	0		
	DO 1	1		