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## How to migrate the WinPac program to XPAC?

*Applies to:*

<i>Platform</i>	<i>OS version</i>	<i>XPAC utility version</i>
<i>XPAC series</i>	<i>All versions (WinCE6)</i>	<i>All versions</i>

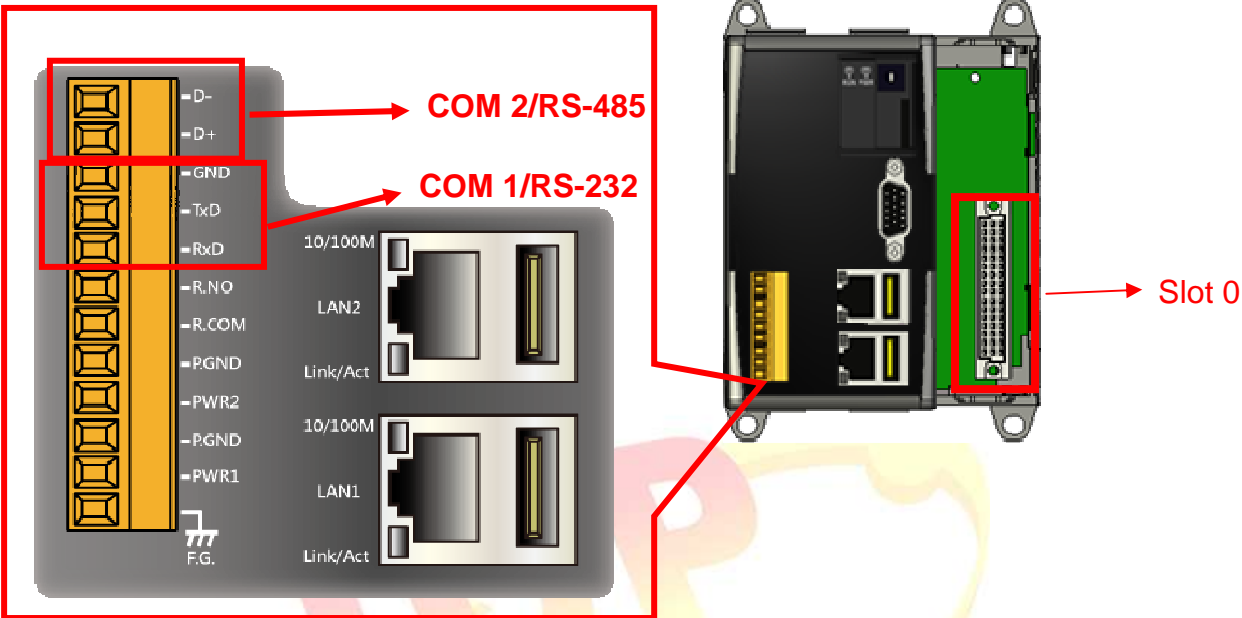
Please pay attention to the different specification of XPac and WinPac first for migrating WinPAC programs to XPAC. The definition of the first slot on WinPAC is 0 and the first slot on XPAC is defined as 1. Besides, the definitions of COM port order are different.

The comparison table of XPac and WinPac is shown in following table and picture.

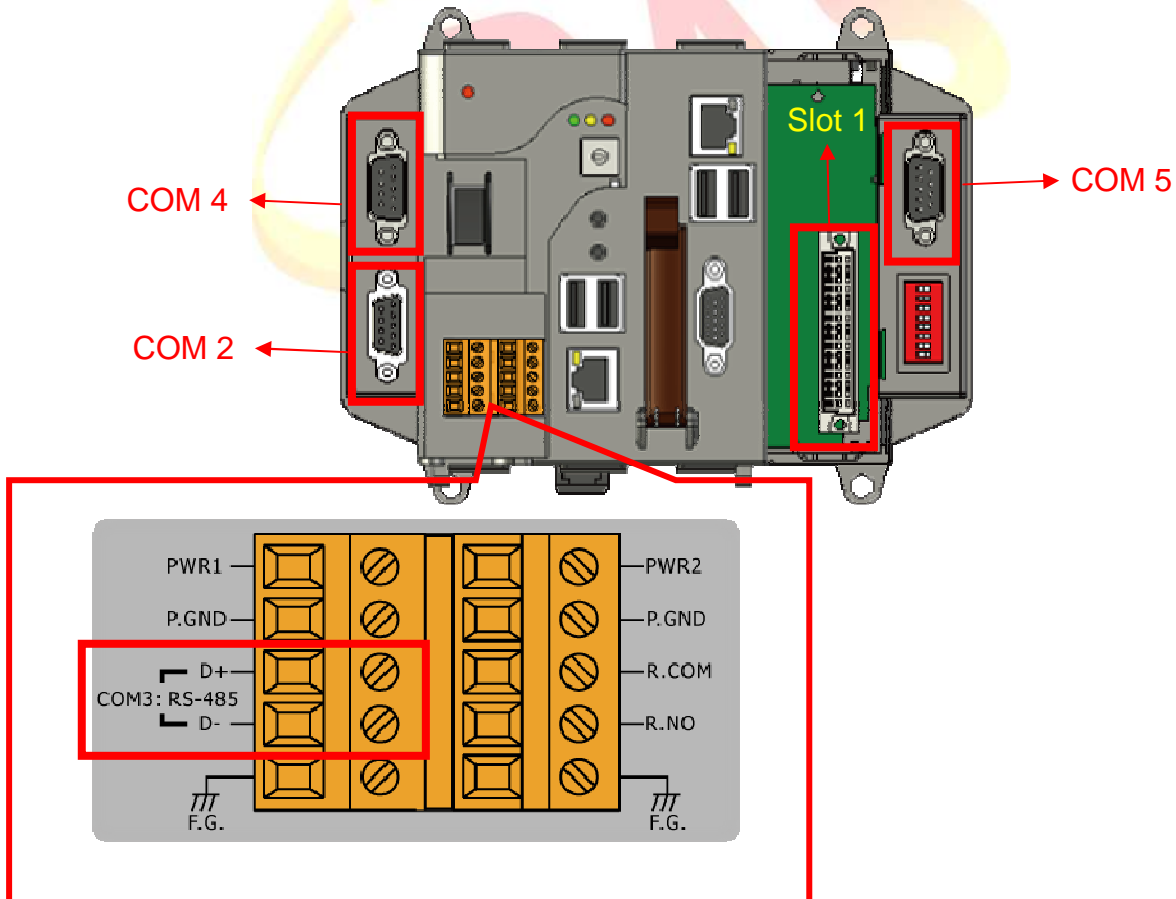
	WP-8131	WP-8431	WP-8831	WP-8141	WP-8441	WP-8841	XP-8141	XP-8341	XP-8741
First Slot	0	0	0	0	0	0	1	1	1
COM 0	Used for backplane	Used for backplane	Used for backplane	Used for backplane	Used for backplane	Used for backplane	N/A	N/A	N/A
COM 1	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	Used for backplane	Used for backplane	Used for backplane
COM 2	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485	RS-232	RS-232	RS-232
COM 3	N/A	RS-232/ RS-485	RS-232/ RS-485	N/A	RS-232/ RS-485	RS-232/ RS-485	RS-485	RS-485	RS-485
COM 4	N/A	RS-232	RS-232	N/A	RS-232	RS-232	RS-232	RS-232	RS-232
COM 5	N/A	N/A	N/A	N/A	N/A	N/A	RS-232	RS-232	RS-232

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WP-8131

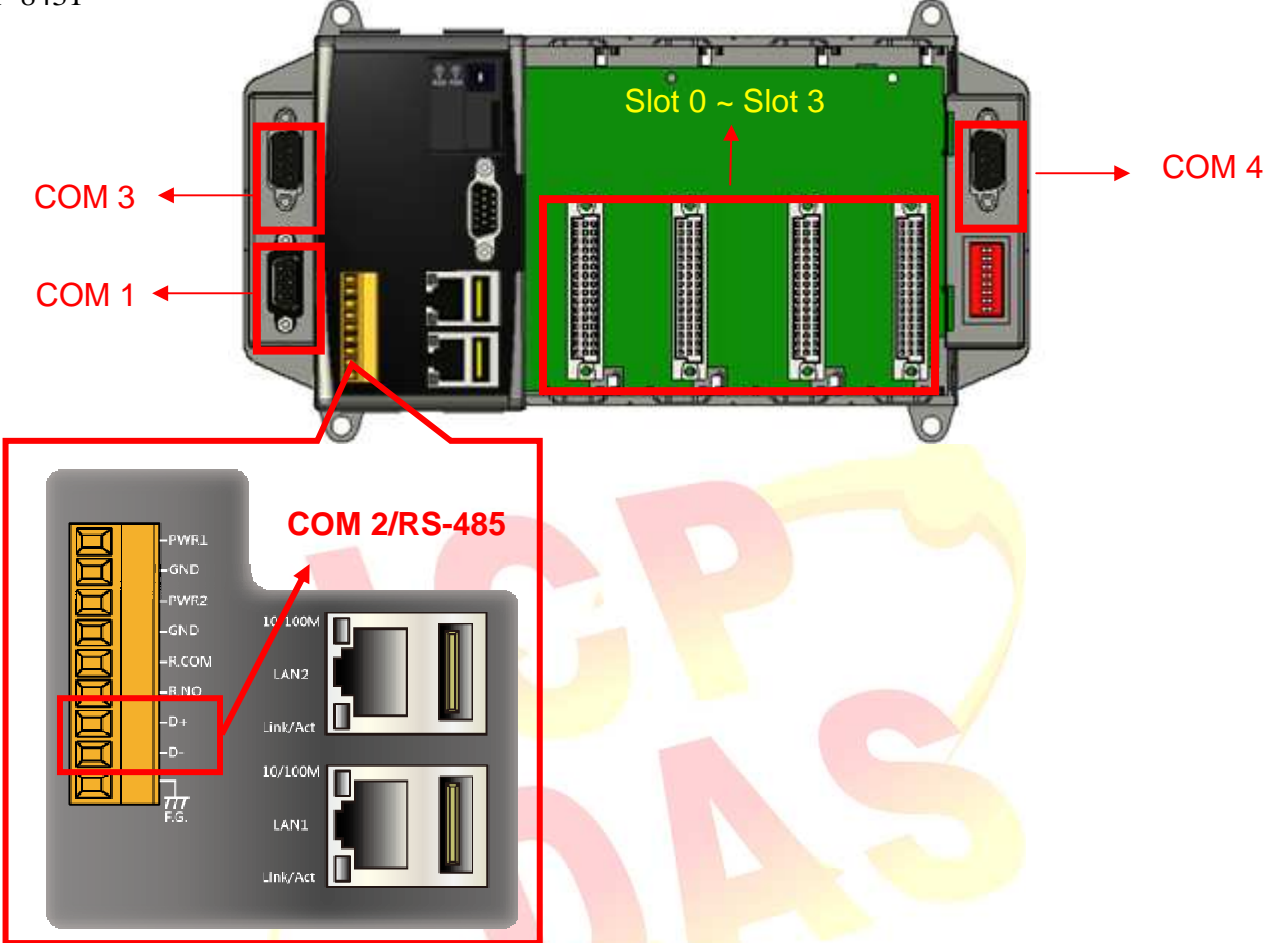


XP-8141

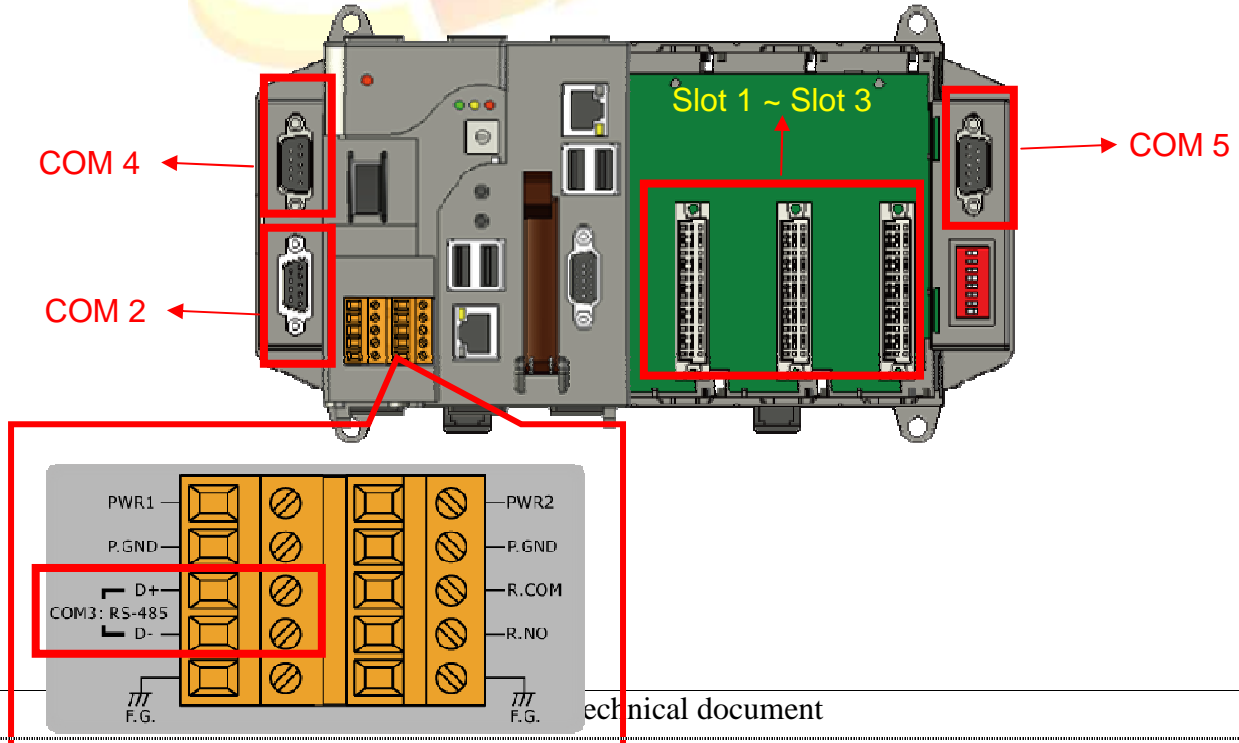


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WP-8431

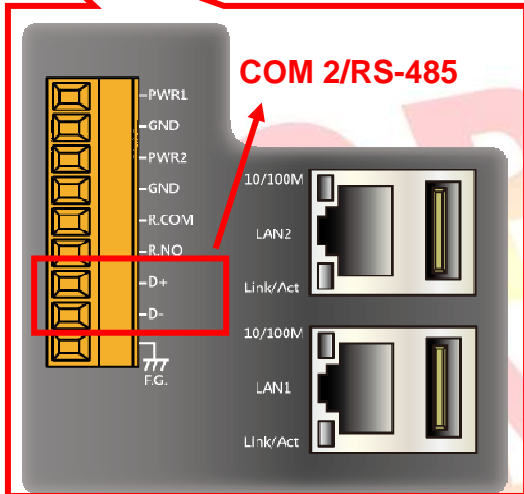
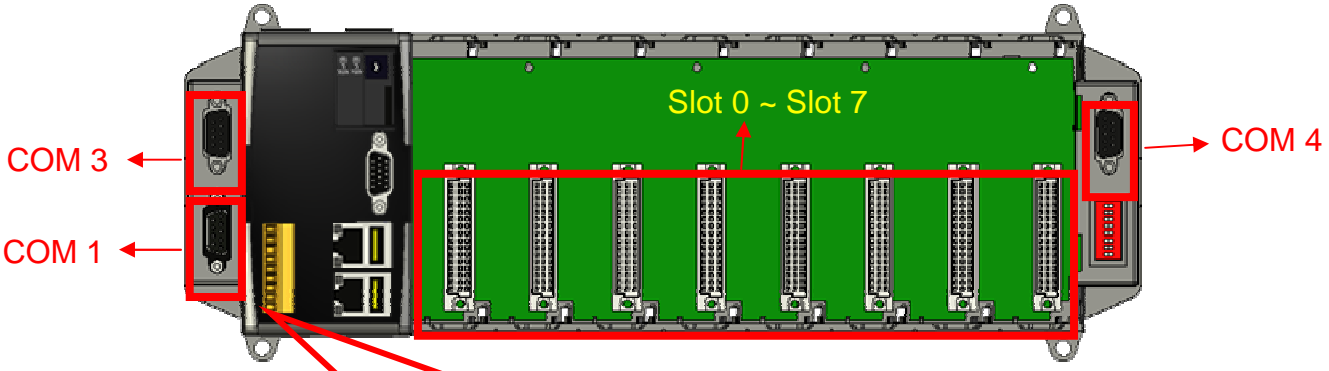


XP-8341

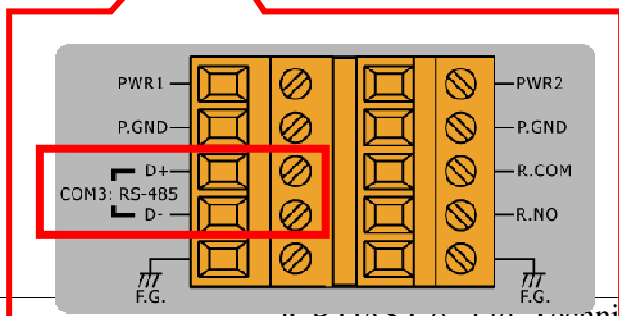
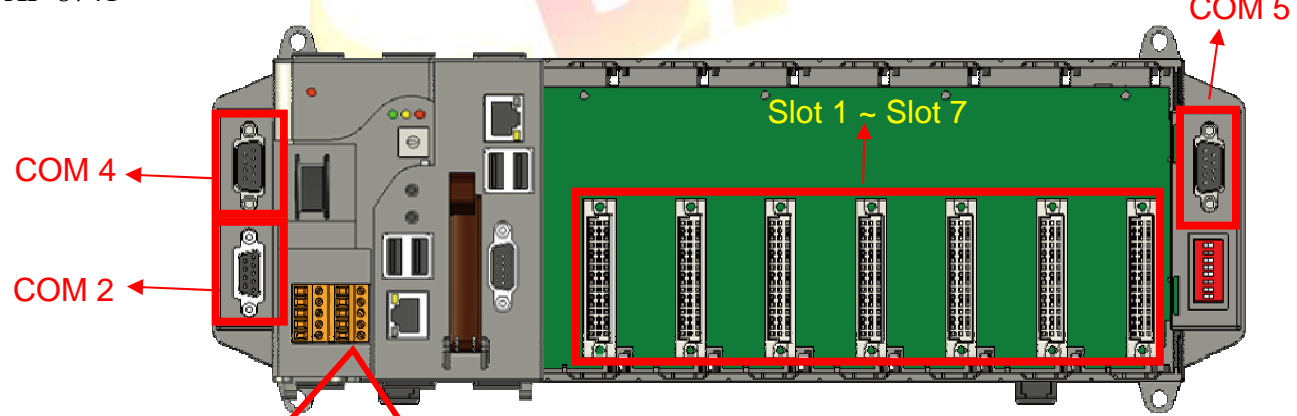


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WP-8831

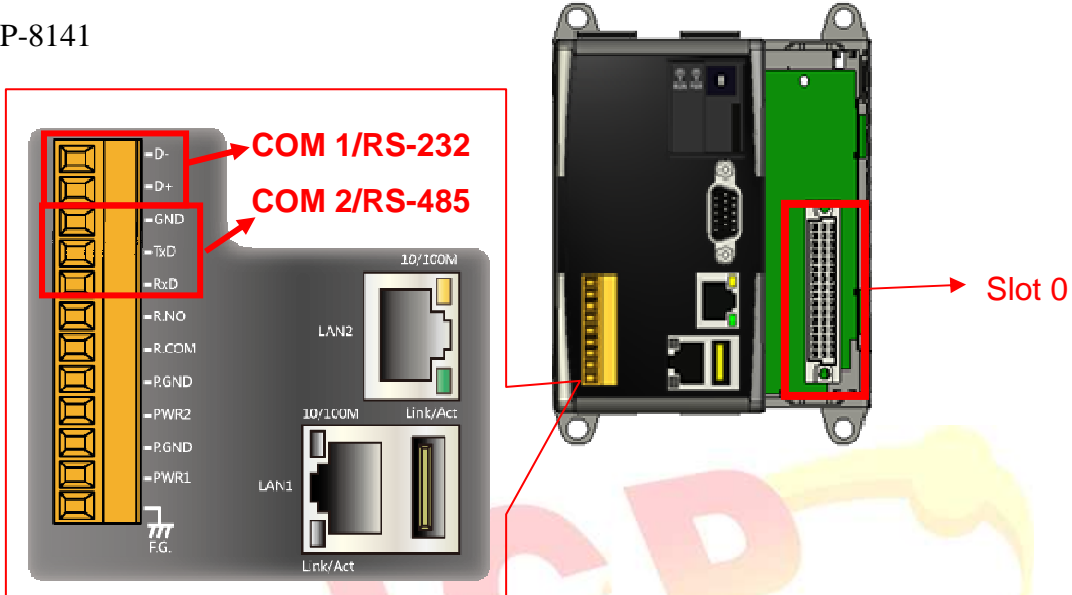


XP-8741

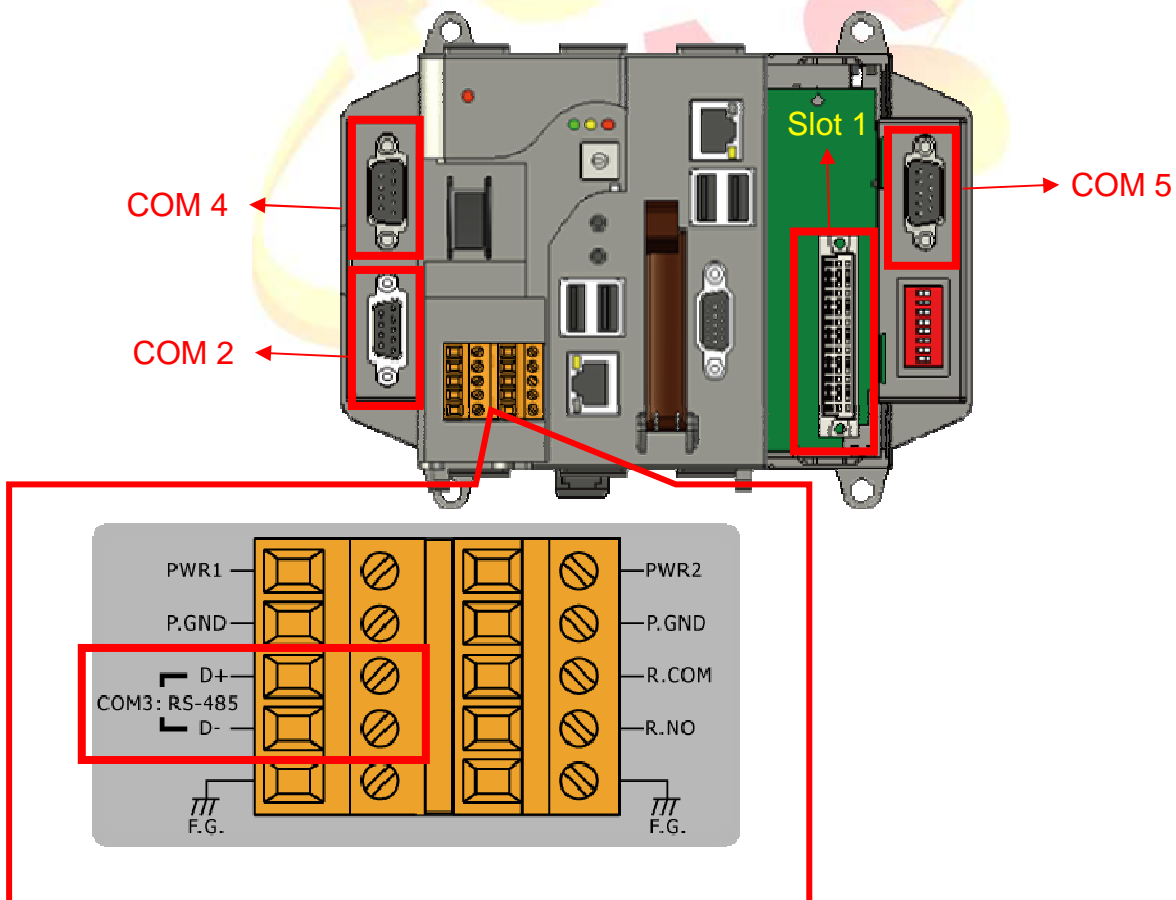


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WP-8141

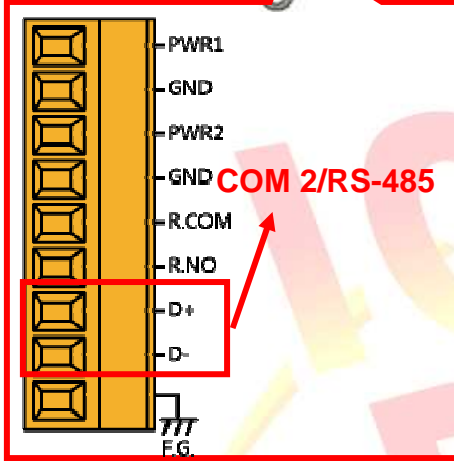
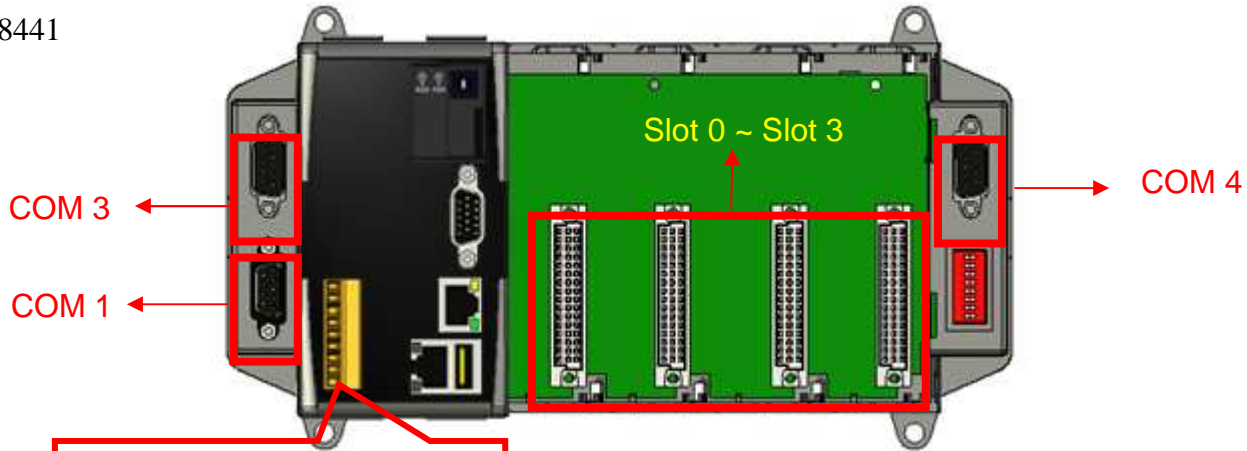


XP-8141

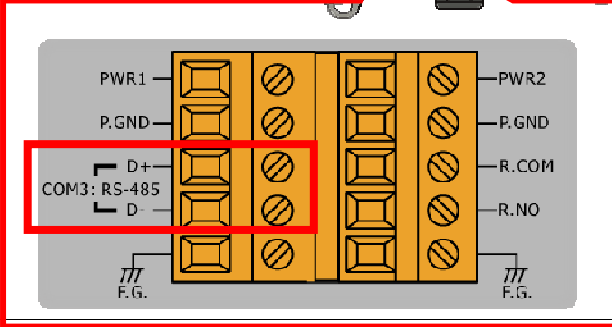
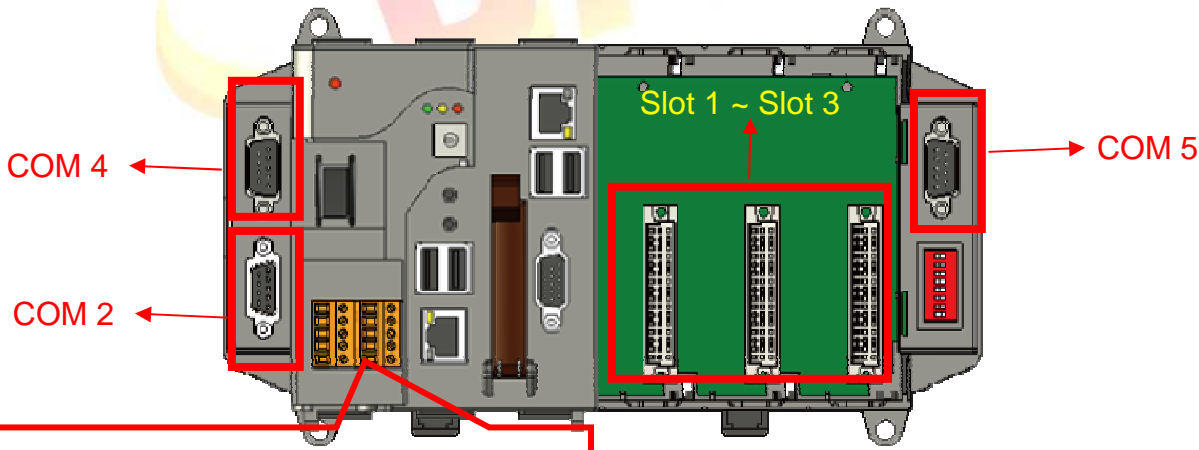


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WP-8441

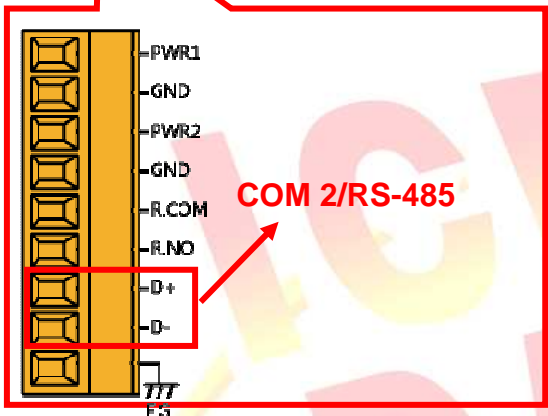
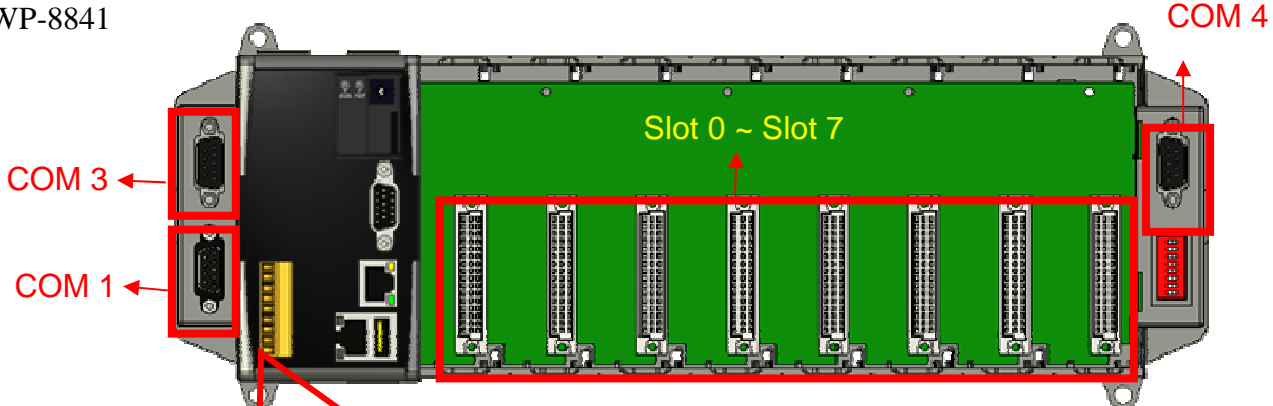


XP-8341

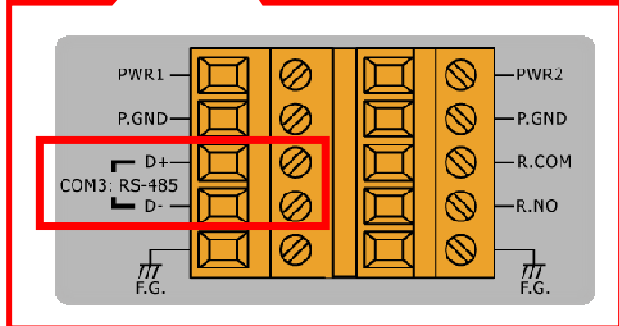
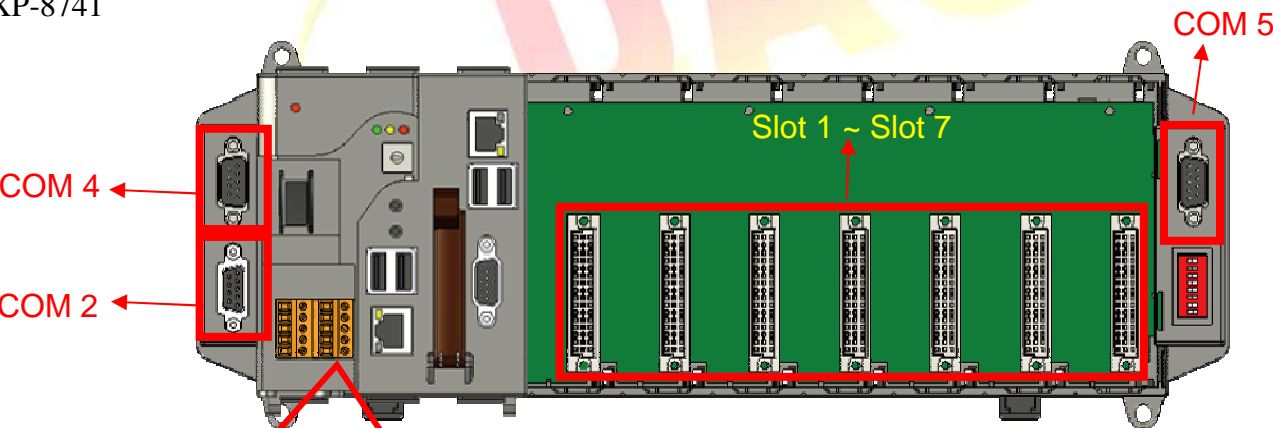


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WP-8841



XP-8741



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For example, if COM1 and Slot 0 used on a WinPac program is migrated to XPAC, COM 1 must be changed to COM 2 and slot 0 changed to slot 1. And then WinPac SDK must be replaced by XPac SDK.

Following steps are shown how modify C# and VB.net program from WinPAC to XPAC. We won't show eVC program due to the program built by eVC isn't exactly migrated to Wince 6.0 environment. We suggest the developer to migrate eVC program to XPAC using VC++. If you need to modify eVC program for XPAC, please send us your source code, we will try to modify your program.

## Modify WinPac C# Program

**Step1:** Get the XPacNet.dll and copy it to the project folder. The XPacNet.dll can be obtained from any C# demo program that has been provided on the CD or by downloading the latest version from ICP DAS web site.

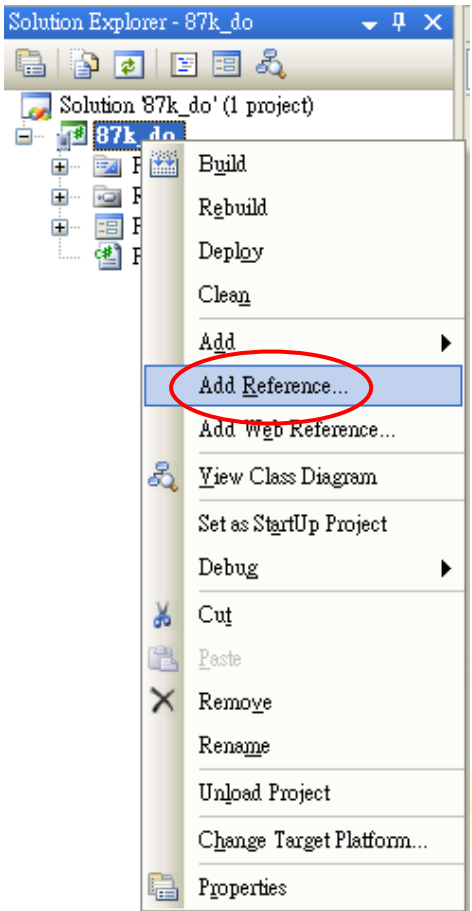
<ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/SDK/XPacNet/>



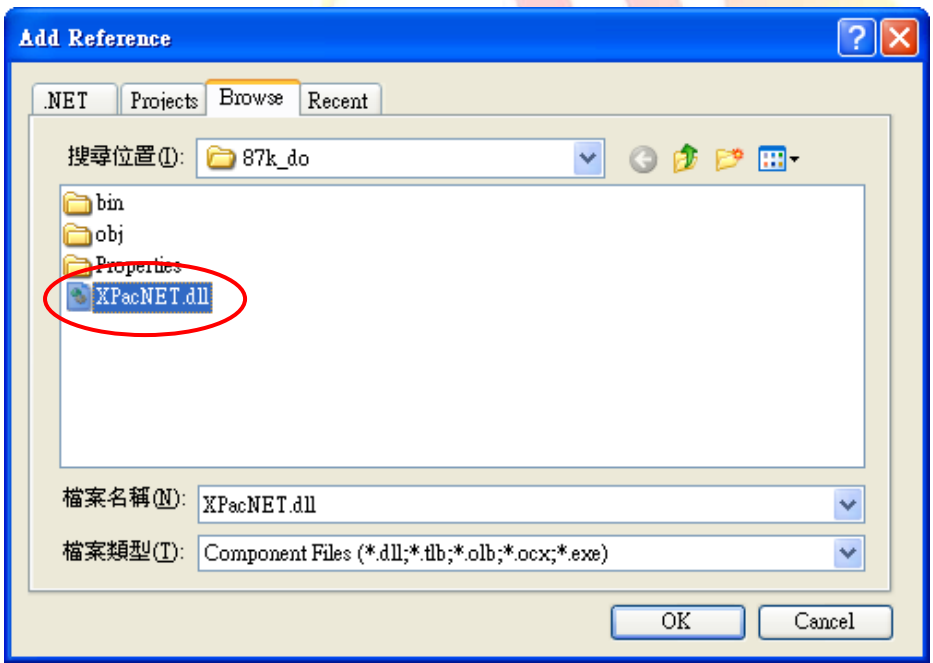


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**Step 2:** In Solution Explorer, right-click the References node, and then click Add Reference....



**Step 3:** Select browse and add the XPacNET.dll.




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**Step 4:** Modify “using WinPacNet” changed to “using XPacNET”.

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using WinPacNet;

```



```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using XPacNET;

```

**Step 5:** Modify “WinPac” changed to “XPacNET.XPac” in your code.

```


private void btnWriteDO_Click(object sender, EventArgs e)
{
    IntPtr hPort;
    //Open com port
    hPort = WinPac.Uart_Open("");

    //Write DO value

    iSlot = Convert.ToInt16(cmb87kDOSlot.Text);
    iRet = WinPac.pac_WriteDO(hPort, iSlot);
    if (iRet != true)
        MessageBox.Show("Error code" + iRet);

    //Close com port
    WinPac.Uart_Close(hPort);
}

```



```

private void btnWriteDO_Click(object sender, EventArgs e)
{
    IntPtr hPort;
    //Open com port
    hPort = XPacNET.XPac.Uart_Open("");

    //Write DO value

    iSlot = Convert.ToInt16(cmb87kDOSlot.Text);
    iRet = XPacNET.XPac.pac_WriteDO(hPort, iSlot);
    if (iRet != true)
        MessageBox.Show("Error code" + iRet);

    //Close com port
    XPacNET.XPac.Uart_Close(hPort);
}

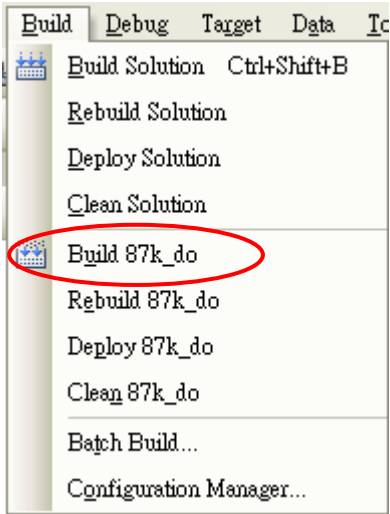
```

**Step 6:** Target device change to “XPacSDK\_CE6 x86 Device”.



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**Step 7:** On the Build menu, click Build your program (this example is 87k\_do).



**Step 8:** Put the build \*.exe and XPacNET.dll on your XPAC and then execute it.

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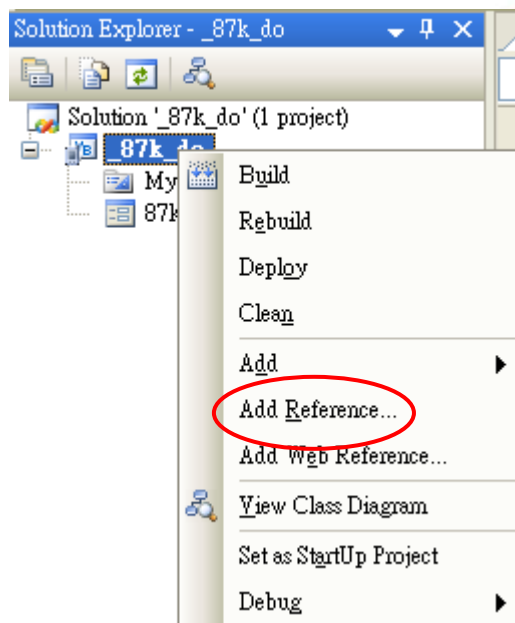
## Modify WinPac VB.Net Program

**Step1:** Get the XPacNet.dll and copy it to the project folder. The XPacNet.dll can be obtained from any C# demo program that has been provided on the CD or by downloading the latest version from ICP DAS web site.

<ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/SDK/XPacNet/>

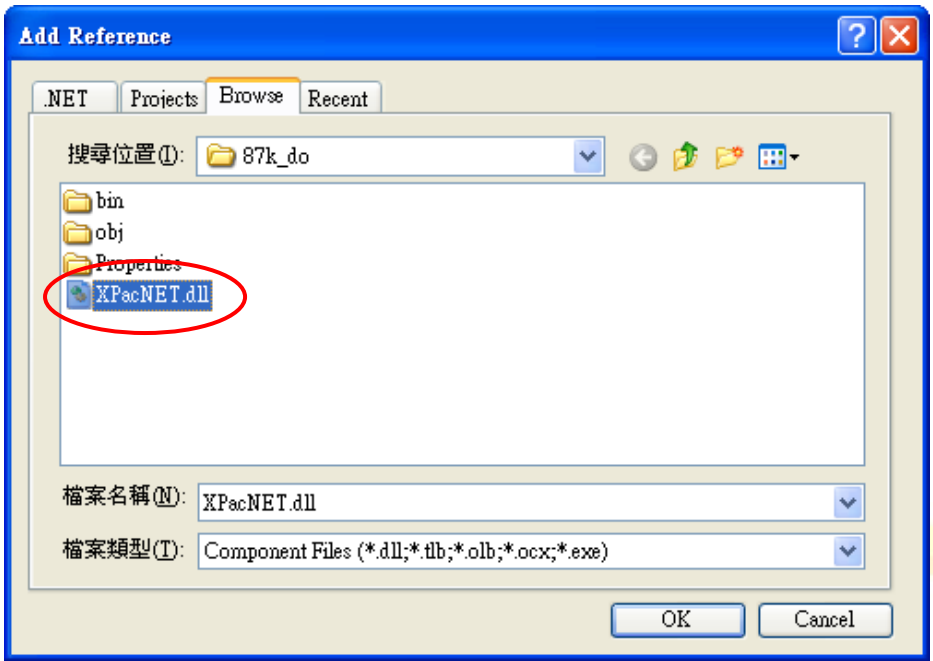


**Step 2:** In Solution Explorer, right-click the References node, and then click Add Reference...



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**Step 3:** Select browse and add the XPacNET.dll.



**Step 4:** Modify “Imports WinPacNet” change to “using XPacNET”.



**Step 5:** Modify “WinPac” change to “XPacNET.XPac” in your code.

```

Private Sub btn87kdo_WriteDO_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btn87kdo_WriteDO.Click
    'Open com port
    hPort = WinPAC.uart_Open("")

    'Write DO value
    iSlot = Convert.ToInt16(cmb87kdo_Slot.Text)
    WinPAC.pac_WriteDO(hPort, iSlot, Convert.ToInt16(cmb87kdo_WriteDO.Text))

    'Close com port
    WinPAC.uart_Close(hPort)
End Sub

```

➔

```

Private Sub btn87kdo_WriteDO_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btn87kdo_WriteDO.Click
    'Open com port
    hPort = XPacNET.XPac.uart_Open("")

    'Write DO value
    iSlot = Convert.ToInt16(cmb87kdo_Slot.Text)
    XPacNET.XPac.pac_WriteDO(hPort, iSlot, Convert.ToInt16(cmb87kdo_WriteDO.Text))

    'Close com port
    XPacNET.XPac.uart_Close(hPort)
End Sub

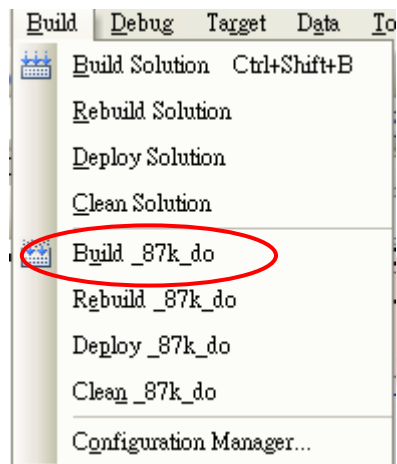
```

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**Step 6:** Target device change to “XPacSDK\_CE6 x86 Device”.



**Step 7:** On the Build menu, click Build your program (this example is 87k\_do).



**Step 8:** Put the build \*.exe and XPacNET.dll on your XPAC and then execute it.