

Using Vortex86SX GPIO in Windows CE

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This document will show programmers how to use our GPIO DLL in embedded Visual C++ and .NET compact framework. Document at http://www.dmp.com.tw/tech/vortex86sx/SX_Using_GPIO.pdf has more information about using watchdog timer in Vortex86SX SoC.

SX_GPIO.DLL

There are six functions in SX_GPIO.DLL:

```
// nPort is GPIO port 0~4. dbDir is GPIO direction, 0 for input and 1 for output
void SetPortDir(int nPort, BYTE dbDir);

// Set all pins in GPIO port 0 as output mode
SetPortDir(0, 0xff);

// Set pin[7-4] in GPIO port 1 as input mode and pin[3-0] as output mode
SetPortDir(1, 0x0f);

// nPort is GPIO port 0~4,
// This function will return one byte for each GPIO pin direction, 0 for input and 1 for output
BYTE GetPortDir(int nPort);

// If GPIO port is set as input mode, using this function to read GPIO data
BYTE ReadPort(int nPort);

// If GPIO port is set as output mode, using this function to write GPIO data
void WritePort(int nPort, BYTE dbValue);
```

Examples

There are two examples: **eVC_Example** is embedded Visual C++ example and **Net_Example** is .NET Compact Framework example for Visual Studio 2005. Compiled execute files are at directory **Bin**. Programmer can run them in Windows CE. For Net_Example example, please make sure your Windows CE image support .NET Compact Framework.

Technical Support

For more technical support, please visit <http://www.dmp.com.tw/tech/vortex86sx> or mail to tech@dmp.com.tw.