

1 .USB Driver Installation

You should install the appropriate USB Driver for USB Communication between PC and Farmware .

- 1) At first, you should download USB Driver from the site of Micronix Corp.
for Driver Installation .

Micronix Download Site for USB Driver

<http://www.micronix-jp.com/Products/download/download.html>

- 2) Connect the machine MSA400 series and PC by the USB cable, and turn on .

The Found New Hardware Wizard will appear .

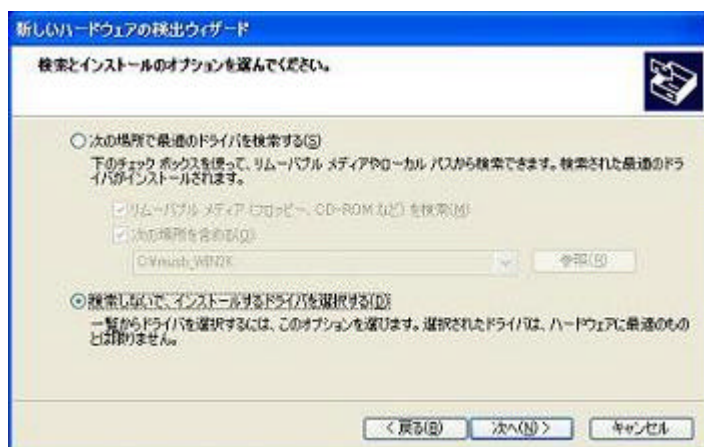
If you are prompted to answer a question about Windows, choose [No, not this time] and click [Next] .



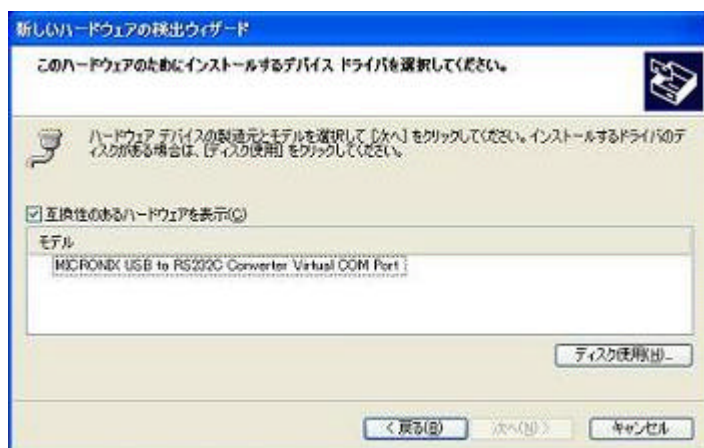
- 3) Select [Install from a list or specific location (Advanced)] and click [Next] .



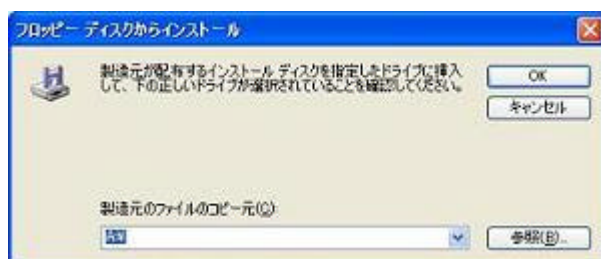
4) Select [Don 't search . I will choose the driver to install .] and click [Next] .



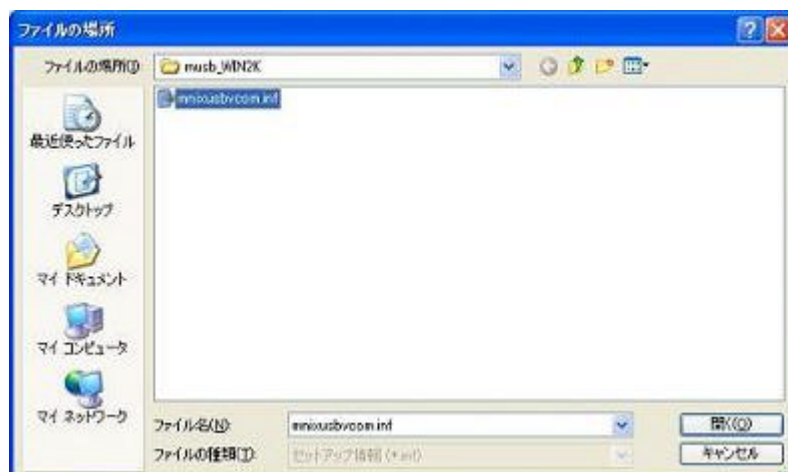
5) Click [Have Disk ...] .



6) Click [Browse] in the following window .



- 7) Browse to the [Micronix_Usb_EN] directory .
Select the file [mnixusbvcom.inf] and click [Open] .



- 8) click [OK] to Continue .



- 9) Click [Next] to continue .



10) Click [Continue Anyway] in the warning dialog box .



11) Click [Finish] .



2 .Sample Program

In this chapter, the example of the program which transmits by USB is shown .

The condition of the setting : Center Frequency 1GHz

```
//////////
/// Port Open ///
//////////

HANDLE handle;

handle = CreateFile("COM1", GENERIC_READ | GENERIC_WRITE, 0, NULL, OPEN_EXISTING,
                  FILE_ATTRIBUTE_NORMAL, NULL);

if(handle == INVALID_HANDLE_VALUE)
{
    AfxMessageBox("COM Can't Open.");
    CloseHandle(handle);
    return -1;
}

COMMTIMEOUTS cto;
GetCommTimeouts(handle, &cto);
cto.ReadIntervalTimeout = 1000;
cto.ReadTotalTimeoutMultiplier = 10;
cto.ReadTotalTimeoutConstant = 100;
cto.WriteTotalTimeoutMultiplier = 10;
cto.WriteTotalTimeoutConstant = 1;
SetCommTimeouts(handle, &cto);

DCB dcb;
GetCommState(handle, &dcb);
dcb.BaudRate = 9600;
dcb.ByteSize = 8;
dcb.Parity = NOPARITY;
dcb.StopBits = ONESTOPBIT;
dcb.DCBlength = sizeof(DCB);
SetCommState(handle, &dcb);
```

```

//////////
/// Send Command ///
//////////

DWORD nSend;
CString StrBuf;

StrBuf.Format("FREQ1GHz\r\n"); // "FREQ1G" + CR + LF //
WriteFile(handle, StrBuf, StrBuf.GetLength(), &nSend, 0); // Frequency is set as 1GHz //

//////////
/// Receive Reply ///
//////////

DWORD nRecv;
char RevStr[256];
memset(RevStr, 0, sizeof(RevStr));

int i = 0;
while(1)
{
    ReadFile(handle, &RevStr[i], 1, &nRecv, 0); // A receiving character is stored in RevStr. //
    if(RevStr[i] == 0x0a) // It will end, if character LF is received. //
        break;

    i++;
}

//////////
/// Port Close ///
//////////

CloseHandle(handle);

```