G-4513-3GWA FAQ

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Q01：I use GSM.lib to make a program, and it run normally on G-4500-2G. Does it can directly move to G-4513-3GWA?

A01：G-4513-3GWA needs using GSM_U2.lib.

GSM_U2.lib download link：
http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4513-3gwa/software/lib/gsm_u2/

GSM_U2 Demo download link：
http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4513-3gwa/software/demo/gsm_u2/

About the differences between GSM.lib and GSM_U2.lib, please refer the following table.

Library	GSM.lib	GSM_U2.lib
Support products	G-4500-2G、 G-4500-3GWA、 G-4511-2G	G-4511-2G、 G-4513-3GWA
Header file(.h)	typedef struct GPRSDATA{ char data[1500]; int dataLen; **char IP[16];** unsigned int port; int link; } GPRSData;	typedef struct GPRSDATA{ char data[1500]; int dataLen; **char fromIP[16];** unsigned int port; int link; } GPRSData;
Power control of 2G/3G module	By MCU	By MCU2, need call MCU2_EnableGSM( )

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Source file(.c) :

Use GSM.lib	Use GSM_U2.lib
#include <conio.h> #include <stdio.h> #include <malloc.h> #include <stdlib.h> #include <string.h> #include "../lib/GSM.h" #include "../lib/G4500.h" #include "../lib/OS7_COM.h"	#include <conio.h> #include <stdio.h> #include <malloc.h> #include <stdlib.h> #include <string.h> **#include "../lib/GSM_U2.h"** #include "../lib/G4500.h" #include "../lib/OS7_COM.h" **#include "../lib/MCU2LIB.h"**

```
int main(void)
{
    InitLib( );

    //---- init modem
    strcpy(sysProfile.PINCode, "0000");
    sysProfile.modemPort = 4;
    sysProfile.hardware = 1;

    …

    return 0;
}
```

```
//Controls the power of GSM module
void powerFunction(int lv)
{
    if(lv==0)
    {
        MCU2_EnableGSM(0);
    }
    else
    {
        MCU2_EnableGSM(1);
    }
}

int main(void)
{
    InitLib( );

    MCU2_init( );

    //---- init modem
    strcpy(sysProfile.PINCode, "0000");
    sysProfile.modemPort = 4;
    sysProfile.hardware = 0;
    GM_SYS_SetPowerFunction(powerFun
    ction);

    …

    return 0;
}
```


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Q02：I have a program that is compiled with LCD library, and it run normally on G-4500D-2G. Does it can directly move to G-4511D-2G or G-4513D-3GWA?

A02：The LCD related pins are different between G-4500D series and the power saving PAC(G-4511D-3G、G-4513D-3GWA). Users need download the LCD library of power saving PAC, re-compile. The LCD library of the power saving PAC download link：

http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4513-3gwa/software/lib/lcd/

Q03：Why read the AI value will be abnormal?

A03：View whether to use fValue = X305IO_AnalogIn (iInChannel); This function to read. Because if you do not wait to continuously read the AI value in the hardware circuit will have a capacitive discharge is not a complete problem. Recommended to use the function provided in the current Demo code to read, the correct value has been obtained.
fValue=X305IO_AnalogIn_HexToFloat(X305IO_AnalogIn_2(iInChannel));

```
int iAINum;
int X305IO_AnalogIn_2(int iChannel)
{
    X305IO_AnalogIn_SetChannel(iChannel);
    if(iAINum!=iChannel)
        Delay(4);
```


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```
    iAINum=iChannel;

    return X305IO_AnalogIn_Hex();
}
```

Q04：Using the G-4513 found a month later, the program would have sent a text message every 30 seconds into every 5 seconds, the module to reopen in order to be normal. How to solve?

A04：Because the system's long said to 4 Bytes that is 4294967295, converted to the first 24 days will be zero. Can refer to the following function to read elapsed time:

```
ulong Calculated_time_through(ulong tick)
{
    if (*TimeTicks >= tick)
        return (*TimeTicks - tick);
    else
        return (4294967295-tick+*TimeTicks);
}
```


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