

G-4513-3GWA FAQ

Tables of Content

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? 3

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?..... 5

Q03 : Why read the AI value will be abnormal? 5

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? 6

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)	<code>typedef struct GPRSDATA{ char data[1500]; int dataLen; char IP[16]; unsigned int port; int link; } GPRSData;</code>	<code>typedef struct GPRSDATA{ char data[1500]; int dataLen; char fromIP[16]; unsigned int port; int link; } GPRSData;</code>
Power control of 2G/3G module	By MCU	By MCU2, need call MCU2_EnableGSM()

Source file(.c) :

Use GSM.lib	Use GSM_U2.lib
<pre>#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"</pre>	<pre>#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"</pre>

<pre>int main(void) { InitLib(); //---- init modem strcpy(sysProfile.PINCode, "0000"); sysProfile.modemPort = 4; sysProfile.hardware = 1; ... return 0; }</pre>	<pre>//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(powerFunction); ... return 0; }</pre>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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);  
}
```

```
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);  
}
```