

MCU2 library for G-4511

User Manual

Warranty

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Chapter 1 MCU2 Library

1.1 Function

Notice:

1. The MCU2 library needs OS7_COM.lib. Please include it.
2. The MCU2 DO0 will keep its value after sleep.
3. The MCU2 DO0 and GSM Power will be turn off after deep sleep.
4. If the MCU2 Di0 was triggered in sleep mode, the main MCU (7186) will wake up from sleep mode.

MCU2_getLibVer

Prototype:

```
void MCU2_getLibVer(char* libVer)
```

Description:

Get library Version.

Parameter:

libVer: a string of library version, format="V1.00 Jul 21 2010". Please declare string length 32 bytes

Return:

No

MCU2_init

Prototype:

int MCU2_init(void)

Description:

MCU2 Library initial.

Parameter:

no

Return:

MCU2_CMDERROR:	initial fail
MCU2_COMERROR:	COM Port Error

MCU2_setDo0

Prototype:

```
int MCU2_setDo0(int status);
```

Description:

set DO0 status

Parameter:

status: 0=OFF, 1=ON

Return:

MCU2_NOERROR:	No Error
MCU2_TIMEOUT:	TIMEOUT Error

MCU2_getDioStatus

Prototype:

```
int MCU2_getDioStatus(void);
```

Description:

get DIO status

Parameter:

No

Return:

DI/O status: bit0=Di0 status, bit1=Do0 status
MCU2_TIMEOUT: TIMEOUT ERROR

MCU2_Sleep

Prototype:

```
int MCU2_Sleep(unsigned long ss);
```

Notice: precision of Timer in Sleep is +- 2/1000, for example:

MCU2_Sleep(1000) maybe sleep 1002 seconds

Description:

Sleep function. This function will power off main MCU

Parameter:

ss : seconds, Max. Sleep time = 999999 seconds

Return:

MCU2_NOERROR: No Error
MCU2_TIMEOUT: TIMEOUT Error
MCU2_CMDERROR: Parameter Error

MCU2_DeepSleep

Prototype:

```
int MCU2_DeepSleep(unsigned long ss);
```

Description:

Deep sleep function. This function will power off main MCU

Notice: precision of Timer in Sleep is +- 2/1000, for example:

MCU2_Sleep(1000) maybe sleep 1002 seconds

Parameter:

ss : seconds, Max. Sleep time = 999999 seconds

Return:

MCU2_NOERROR: No Error
MCU2_TIMEOUT: TIMEOUT Error
MCU2_CMDERROR: Parameter Error

MCU2_getVBattery

Prototype:

```
float MCU2_getVBattery(void);
```

Description:

Get Battery Voltage

Parameter:

No

Return:

Battery voltage: 0~15V

Error: 9999

MCU2_EnableGSM

Prototype:

```
int MCU2_EnableGSM(unsigned int en);
```

Description:

Enable GSM power

Parameter:

en=0, power off GSM module

en=1, power on GSM module

Return:

MCU2_NOERROR: No Error

MCU2_TIMEOUT: Timeout Error

MCU2_CMDERROR: Command Error

MCU2_BatteryProtect

Prototype:

```
int MCU2_BatteryProtect(unsigned int en);
```

Description:

Enable Battery Protecting function

Parameter:

en=0, Disable Battery protecting

en=1, Enable Battery protecting

Return:

MCU2_NOERROR: No Error

MCU2_TIMEOUT: Timeout Error

MCU2_CMDERROR: Command Error

Version Record

Version	By	Date	Description
1.0.0	Malo	2013/05/16	release