

A6Lib

Generated by Doxygen 1.8.14

Contents

1	Class Index	1
1.1	Class List	1
2	File Index	3
2.1	File List	3
3	Class Documentation	5
3.1	A6lib Class Reference	5
3.1.1	Detailed Description	6
3.1.2	Constructor & Destructor Documentation	6
3.1.2.1	A6lib() [1/3]	6
3.1.2.2	A6lib() [2/3]	6
3.1.2.3	A6lib() [3/3]	7
3.1.2.4	~A6lib()	7
3.1.3	Member Function Documentation	7
3.1.3.1	addHandler()	7
3.1.3.2	deleteSMS()	7
3.1.3.3	getDeviceStatus()	8
3.1.3.4	getFirmWareVer()	8
3.1.3.5	getIMEI()	8
3.1.3.6	getOperatorName()	9
3.1.3.7	getRealTimeClock()	9
3.1.3.8	getRealTimeClockString()	9
3.1.3.9	getRegisterStatus()	9

3.1.3.10	getRSSI()	10
3.1.3.11	getSignalQuality()	10
3.1.3.12	getSMSList()	10
3.1.3.13	getSMSSca()	10
3.1.3.14	handle()	11
3.1.3.15	hardReset()	11
3.1.3.16	onSMSReceived()	11
3.1.3.17	onSMSSent()	11
3.1.3.18	onSMSSStorageFull()	12
3.1.3.19	powerUp()	12
3.1.3.20	readSMS()	12
3.1.3.21	sendCommand()	13
3.1.3.22	sendPDU() [1/2]	13
3.1.3.23	sendPDU() [2/2]	13
3.1.3.24	sendSMS()	14
3.1.3.25	sendUSSD()	14
3.1.3.26	setCharSet()	14
3.1.3.27	setSMSSStorageArea()	15
3.1.3.28	softReset()	15
3.1.3.29	start()	15
3.1.3.30	waitForNetwork()	15
3.2	SMSInfo Class Reference	17
3.2.1	Constructor & Destructor Documentation	17
3.2.1.1	SMSInfo()	17
3.2.2	Member Data Documentation	17
3.2.2.1	dateTime	17
3.2.2.2	message	18
3.2.2.3	number	18

4 File Documentation	19
4.1 A6lib.cpp File Reference	19
4.2 A6lib.h File Reference	19
4.2.1 Typedef Documentation	20
4.2.1.1 sms_full_cb_t	20
4.2.1.2 sms_rx_cb_t	20
4.2.1.3 sms_tx_cb_t	20
4.2.1.4 void_cb_t	20
4.2.2 Enumeration Type Documentation	20
4.2.2.1 CharSet	20
4.2.2.2 DeviceStatus	21
4.2.2.3 RegisterStatus	21
4.2.2.4 SMSRecordType	21
4.2.2.5 SMSStorageArea	22
4.3 pdu.h File Reference	22
4.3.1 Function Documentation	22
4.3.1.1 pdu_encode()	22
4.3.1.2 pdu_encodew()	23
Index	25

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

A6lib	A library for controlling Ai-Thinker A6 GSM modem(also works with others like SIM800)	5
SMSInfo		17

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

A6lib.cpp	19
A6lib.h	19
pdu.h	22

Chapter 3

Class Documentation

3.1 A6lib Class Reference

A library for controlling Ai-Thinker A6 GSM modem(also works with others like SIM800).

```
#include <A6lib.h>
```

Public Member Functions

- [A6lib](#) (HardwareSerial *port)
- [A6lib](#) (SoftwareSerial *port)
- [A6lib](#) (uint8_t rx_pin, uint8_t tx_pin)
- [~A6lib](#) ()
- void [handle](#) ()
- bool [start](#) (uint8_t max_retry)
- bool [waitForNetwork](#) (unsigned long baud, uint16_t time_out)
- void [powerUp](#) (int pin)
- void [softReset](#) ()
- void [hardReset](#) (uint8_t pin)
- [DeviceStatus](#) [getDeviceStatus](#) ()
- String [getFirmWareVer](#) ()
- int [getRSSI](#) ()
- uint8_t [getSignalQuality](#) ()
- time_t [getRealTimeClock](#) ()
- String [getRealTimeClockString](#) (const String &format=String())
- String [getIMEI](#) ()
- String [getSMSSca](#) ()
- [RegisterStatus](#) [getRegisterStatus](#) ()
- String [getOperatorName](#) ()
- String [sendUSSD](#) (const String &ussd_code, uint16_t timeout=-1)
- bool [setSMSStorageArea](#) ([SMSStorageArea](#))
- bool [setCharSet](#) ([CharSet](#))
- bool [sendSMS](#) (const String &number, const String &text)
- bool [sendPDU](#) (const String &number, const String &content)
- bool [sendPDU](#) (const String &number, uint16_t *content, uint8_t len)
- [SMSInfo](#) [readSMS](#) (uint8_t index)
- bool [deleteSMS](#) (uint8_t index, bool del_all=false)
- int8_t [getSMSList](#) (int8_t *buff, uint8_t len, [SMSRecordType](#) record)
- void [addHandler](#) ([void_cb_t](#))
- void [onSMSSent](#) ([sms_tx_cb_t](#))
- void [onSMSReceived](#) ([sms_rx_cb_t](#))
- void [onSMSStorageFull](#) ([sms_full_cb_t](#))
- String [sendCommand](#) (const String &command, uint16_t reply_timeout=2000)

3.1.1 Detailed Description

A library for controlling Ai-Thinker A6 GSM modem(also works with others like SIM800).

An Arduino library for communicating with the Ai-Thinker A6 GSM modem, It currently supports ESP8266 and AVR architectures. This small lib mainly intended for Ai-Thinker A6 modem but may possibly work with other GSM modems supporting standard AT command set (e.g SIM800, SIM900 ,...). Using this lib is straightforward, you can create an object of [A6lib](#) via `HardwareSerial`, `SoftwareSerial` or just two pin number for built in `SoftwareSerial`. Then you usually should power up your module ([A6lib::powerUp\(\)](#)) and initlize [A6lib](#) object to start communicating with modem at desired baud rate. from now on, use public APIs to control your modem and get informations from it. Also there's a rich debugging part inside the library, to enable it define `DEBUG` in your environment.

This lib has been modified to be asynchronous, so currently you can pass your functions to register APIs to catch these events:

1. SMS sent
2. SMS received
3. Storage area is full

Note

A note about [A6lib::addHandler\(\)](#): When you have some important tasks in your code for example reading keypad etc, you can add a main function for running those tasks and pass it to [A6lib::addHandler\(\)](#), when you pass a valid function, lib will call it whenever it's in waiting state (waiting for modem to reply at some time) and thus it'll prevent locking in that precious time.

To get start you can check out examples directory.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 [A6lib\(\)](#) [1/3]

```
A6lib::A6lib (
    HardwareSerial * port )
```

Constructs [A6lib](#) object with the given serial *port*.

Parameters

<i>port</i>	HardwareSerial object for use inside A6lib .
-------------	--

3.1.2.2 [A6lib\(\)](#) [2/3]

```
A6lib::A6lib (
```

```
SoftwareSerial * port )
```

Constructs [A6lib](#) object with the given serial *port*.

Parameters

<i>port</i>	SoftwareSerial object for use inside A6lib
-------------	--

3.1.2.3 A6lib() [3/3]

```
A6lib::A6lib (
    uint8_t rx_pin,
    uint8_t tx_pin )
```

Constructs [A6lib](#) object with the given pin numbers. this is done by creating new SoftwareSerial object.

Parameters

<i>tx_pin</i>	SoftwareSerial TX pin
<i>rx_pin</i>	SoftwareSerial RX pin

3.1.2.4 ~A6lib()

```
A6lib::~~A6lib ( )
```

Destroys [A6lib](#) object.

3.1.3 Member Function Documentation

3.1.3.1 addHandler()

```
void A6lib::addHandler (
    void_cb_t cb )
```

Add the [A6lib](#) main handler callback. [A6lib](#) will call this handler when it is inside the waiting routine. it'll prevent lock in your code when you have some critical tasks to run. Note: The result of passing loop() to this function is undefined!

3.1.3.2 deleteSMS()

```
bool A6lib::deleteSMS (
    uint8_t index,
    bool del_all = false )
```

Delete a SMS from modem preferred storage area. Note: if del_all is true, index will be ignored and all SMS will be deleted in storage area.

Parameters

<i>index</i>	sms index in storage area
--------------	---------------------------

Returns

true on success

3.1.3.3 getDeviceStatus()

```
DeviceStatus A6lib::getDeviceStatus ( )
```

get the current modem working status.

Returns

on of the [DeviceStatus](#) value.

3.1.3.4 getFirmWareVer()

```
String A6lib::getFirmWareVer ( )
```

Get the revision identification or firmware version of modem.

Returns

If success a String contain firmware version, and if fail an empty string.

3.1.3.5 getIMEI()

```
String A6lib::getIMEI ( )
```

Get the modem IMEI(serial number identification).

Returns

if success a string contain IMEI number, if fail an empty string.

3.1.3.6 getOperatorName()

```
String A6lib::getOperatorName ( )
```

Get the Network operator name. note that the name is read from SIM card.

Returns

if success a String contain the operator name, else an empty String

3.1.3.7 getRealTimeClock()

```
time_t A6lib::getRealTimeClock ( )
```

Get the real time from modem(the return value is not necessary up to date).

Returns

if success a value contain time as time_t(epoch), if fail an invalid(-1) value.

3.1.3.8 getRealTimeClockString()

```
String A6lib::getRealTimeClockString (
    const String & format = String() )
```

Get the real time string from modem. please refer to <http://www.cplusplus.com/reference/ctime/strftime/> for format specifier.

Returns

if success a string contain local time in format yyyy.MM.dd hh:mm:ss, if fail an empty string.

3.1.3.9 getRegisterStatus()

```
RegisterStatus A6lib::getRegisterStatus ( )
```

Get the network registration status of modem.

Returns

on of the [RegisterStatus](#) value

3.1.3.10 getRSSI()

```
int A6lib::getRSSI ( )
```

Get the modem signal strength based on RSSI(measured as dBm).

Returns

If success a value between -113dBm and -51dBm and if fail 0.

3.1.3.11 getSignalQuality()

```
uint8_t A6lib::getSignalQuality ( )
```

Get the modem signal quality level.

Returns

if success a value between 0-100 and if fail 255.

3.1.3.12 getSMSList()

```
int8_t A6lib::getSMSList (
    int8_t * buff,
    uint8_t len,
    SMSRecordType record )
```

Get the list of available SMS in preferred storage area.

Parameters

<i>buff</i>	input buffer to store SMS indexes.
<i>len</i>	size of buff
<i>record</i>	on of the SMSRecordType .

Returns

if fail -1, otherwise number of founded SMS.

3.1.3.13 getSMSSca()

```
String A6lib::getSMSSca ( )
```

Get the current SMS service center address from modem.

Returns

if success a string contain SCA, if fail an empty string

3.1.3.14 handle()

```
void A6lib::handle ( )
```

the main handler of [A6lib](#) object. this function needs to be called inside main loop regularly, for callbacks to work correctly.

3.1.3.15 hardReset()

```
void A6lib::hardReset (
    uint8_t pin )
```

This function will do a hard reset on module. It's recommended to do this via an NMOS. Note: it will take some time for module to start + register for network. You may also need to reinitilize module with [A6lib::start\(\)](#).

Parameters

<i>pin</i>	the pin number which is connected to modem reset(RST) pin.
------------	--

3.1.3.16 onSMSReceived()

```
void A6lib::onSMSReceived (
    sms_rx_cb_t cb )
```

This function will register your callback and will call it when new SMS arrives.

Parameters

<i>cb</i>	pointer to callback function
-----------	------------------------------

3.1.3.17 onSMSSent()

```
void A6lib::onSMSSent (
    sms_tx_cb_t cb )
```

This function will register your callback and will call it when a SMS is sent.

Parameters

<i>cb</i>	pointer to callback function
-----------	------------------------------

3.1.3.18 onSMSStorageFull()

```
void A6lib::onSMSStorageFull (
    sms_full_cb_t cb )
```

This function will register your callback and will call it when modem preferred storage area is full.

Parameters

<i>cb</i>	pointer to callback function
-----------	------------------------------

3.1.3.19 powerUp()

```
void A6lib::powerUp (
    int pin )
```

this optional function will keep the PWR pin of modem in high TTL at start up to correctly powering the module. A6 modem needs this pin to be in high TTL for about 2 sec.

Parameters

<i>pin</i>	the pin number which is connected to modem PWR pin(or PWR_KEY pin).
------------	---

3.1.3.20 readSMS()

```
SMSInfo A6lib::readSMS (
    uint8_t index )
```

Read a SMS in modem preferred storage area

Parameters

<i>index</i>	sms index in storage area
--------------	---------------------------

Returns

a [SMSInfo](#) object contain SMS information(number+date+timestamp) on success, and if fail an empty [SMSInfo](#) object.

3.1.3.21 sendCommand()

```
String A6lib::sendCommand (
    const String & command,
    uint16_t reply_timeout = 2000 )
```

Send new command to modem. command should be a valid AT command, otherwise modem will return error with corresponding error code(this function will append to command). Note: you may want to check modem is busy or not with [A6lib::isBusy\(\)](#).

Parameters

<i>command</i>	the valid command to be sent with AT prefix
<i>reply_timeout</i>	the amount of time(as ms) we wait for reply

Returns

if success an string contain modem reply, otherwise contain error code

3.1.3.22 sendPDU() [1/2]

```
bool A6lib::sendPDU (
    const String & number,
    const String & content )
```

Send an ASCII SMS in PDU mode.

Parameters

<i>number</i>	the detination phone number which should begin with international code
<i>content</i>	the SMS content in ASCII and up to 160 chars

Returns

true on success

3.1.3.23 sendPDU() [2/2]

```
bool A6lib::sendPDU (
    const String & number,
```

```
uint16_t * content,
uint8_t len )
```

Send a UCS2 SMS in PDU mode.

Parameters

<i>number</i>	the detination phone number which should begin with international code
<i>content</i>	the SMS content coded in UCS2 format and up to 70 chars.
<i>len</i>	the number of UCS2 chars in <i>content</i>

Returns

true on success

3.1.3.24 sendSMS()

```
bool A6lib::sendSMS (
    const String & number,
    const String & text )
```

Send SMS (in text mode) to specified number.

Parameters

<i>number</i>	valid destination number without +
<i>text</i>	SMS content in ascii encoding

Returns

true on success

3.1.3.25 sendUSSD()

```
String A6lib::sendUSSD (
    const String & ussd_code,
    uint16_t timeout = -1 )
```

3.1.3.26 setCharSet()

```
bool A6lib::setCharSet (
    CharSet set )
```

set the module charset.

Parameters

<i>charset</i>	the required charset. could be on of the <code>::Charset</code> value
----------------	---

Returns

true on success.

3.1.3.27 setSMSStorageArea()

```
bool A6lib::setSMSStorageArea (
    SMSStorageArea )
```

3.1.3.28 softReset()

```
void A6lib::softReset ( )
```

This function implement a software restart on module(if suppoerted). Note: it will take some time for module to start + register for network. You may also need to reinitilize module with [A6lib::start\(\)](#).

3.1.3.29 start()

```
bool A6lib::start (
    uint8_t max_retry )
```

This is the [A6lib](#) object initlizer routine. you must usually call this after restarting your modem following by [A6lib::waitForNetwork\(\)](#).

Parameters

<i>max_retry</i>	the maximum number of time A6lib object try to setup modem.
------------------	---

Returns

true on success

3.1.3.30 waitForNetwork()

```
bool A6lib::waitForNetwork (
    unsigned long baud,
    uint16_t time_out )
```

This method will wait for modem to trigger the registration indication which is the result of correct netowrk registration. you must call this usually before [A6lib::start\(\)](#).

Parameters

<i>baud</i>	the desired baud rate to start with
<i>time_out</i>	the maximum amount of time A6lib object wait for network registration indication.

Returns

true on success

The documentation for this class was generated from the following files:

- [A6lib.h](#)
- [A6lib.cpp](#)

3.2 SMSInfo Class Reference

```
#include <A6lib.h>
```

Public Member Functions

- [SMSInfo](#) ()

Public Attributes

- String [number](#)
- String [dateTime](#)
- String [message](#)

3.2.1 Constructor & Destructor Documentation

3.2.1.1 SMSInfo()

```
SMSInfo::SMSInfo ( ) [inline]
```

3.2.2 Member Data Documentation

3.2.2.1 dateTime

```
String SMSInfo::dateTime
```

3.2.2.2 message

`String SMSInfo::message`

3.2.2.3 number

`String SMSInfo::number`

The documentation for this class was generated from the following file:

- [A6lib.h](#)

Chapter 4

File Documentation

4.1 A6lib.cpp File Reference

```
#include <stdio.h>
#include <stdarg.h>
#include "pdu.h"
#include "A6lib.h"
```

4.2 A6lib.h File Reference

```
#include <time.h>
#include <Arduino.h>
#include <SoftwareSerial.h>
#include <HardwareSerial.h>
```

Classes

- class [SMSInfo](#)
- class [A6lib](#)

A library for controlling Ai-Thinker A6 GSM modem(also works with others like SIM800).

Typedefs

- typedef void(* [void_cb_t](#)) (void)
- typedef void(* [sms_rx_cb_t](#)) (uint8_t indx, const [SMSInfo](#) &)
- typedef void(* [sms_tx_cb_t](#)) (void)
- typedef [void_cb_t](#) [sms_full_cb_t](#)

Enumerations

- enum `DeviceStatus` { `Status_Ready` = 0, `Status_Unknown` = 2, `Status_Ringing` = 3, `Status_Call_In_Progress` = 4 }
- enum `CharSet` { `Gsm`, `Ucs2`, `Hex`, `Pccp936` }
- enum `RegisterStatus` {
 `NotRegistered` = 0, `Registered_HomeNetwork` = 1, `Searching_To_Register` = 2, `Register_Denied` = 3,
 `Unknown` = 4, `Registered_Roaming` = 5 }
- enum `SMSSStorageArea` {
 `ME` = 1, `SM`, `MT`, `SM_P`,
 `ME_P` }
- enum `SMSRecordType` { `All`, `Unread`, `Read` }

4.2.1 Typedef Documentation

4.2.1.1 sms_full_cb_t

```
typedef void_cb_t sms_full_cb_t
```

4.2.1.2 sms_rx_cb_t

```
typedef void(* sms_rx_cb_t) (uint8_t indx, const SMSInfo &)
```

4.2.1.3 sms_tx_cb_t

```
typedef void(* sms_tx_cb_t) (void)
```

4.2.1.4 void_cb_t

```
typedef void(* void_cb_t) (void)
```

4.2.2 Enumeration Type Documentation

4.2.2.1 CharSet

```
enum CharSet
```

Enumerator

Gsm	
Ucs2	
Hex	
Pccp936	

4.2.2.2 DeviceStatus

```
enum DeviceStatus
```

Enumerator

Status_Ready	
Status_Unknown	
Status_Ringing	
Status_Call_In_Progress	

4.2.2.3 RegisterStatus

```
enum RegisterStatus
```

Enumerator

NotRegistered	
Registered_HomeNetwork	
Searching_To_Register	
Register_Denied	
Unknown	
Registered_Roaming	

4.2.2.4 SMSRecordType

```
enum SMSRecordType
```

Enumerator

All	
Unread	
Read	

4.2.2.5 SMSStorageArea

enum [SMSStorageArea](#)

Enumerator

ME	
SM	
MT	
SM↔ _P	
ME↔ _P	

4.3 pdu.h File Reference

```
#include <stdint.h>
#include <inttypes.h>
```

Functions

- int [pdu_encode](#) (const char *sca, const char *phone, const char *text, uint8_t text_len, uint8_t *pdu, uint8_t pdu_size)
Encode input SMS text (which is coded in ASCII) into a SMS-SUBMIT pdu.
- int [pdu_encodew](#) (const char *sca, const char *phone, const uint16_t *text, uint8_t text_len, uint8_t *pdu, uint8_t pdu_size)
Encode input SMS text (which is coded in UCS2) into a SMS-SUBMIT pdu.

4.3.1 Function Documentation

4.3.1.1 pdu_encode()

```
int pdu_encode (
    const char * sca,
    const char * phone,
    const char * text,
    uint8_t text_len,
    uint8_t * pdu,
    uint8_t pdu_size )
```

Encode input SMS *text* (which is coded in ASCII) into a SMS-SUBMIT pdu.

Parameters

<i>sca</i>	a null terminated string contain SMS service center address
<i>phone</i>	a null terminated string contain destination phone number
<i>text</i>	the SMS content in ASCII
<i>text_len</i>	the number of chars in SMS content(could be up to 160 char long)
<i>pdu</i>	the input buffer which is going to hold the final pdu
<i>pdu_size</i>	the size of input pdu buffer

Returns

if success a positive value represent number of pdu octets written, if fail a negative value represent error code

4.3.1.2 pdu_encodew()

```
int pdu_encodew (
    const char * sca,
    const char * phone,
    const uint16_t * text,
    uint8_t text_len,
    uint8_t * pdu,
    uint8_t pdu_size )
```

Encode input SMS *text* (which is coded in UCS2) into a SMS-SUBMIT pdu.

Parameters

<i>sca</i>	a null terminated string contain SMS service center address
<i>phone</i>	a null terminated string contain destination phone number
<i>text</i>	the SMS content coded in UCS2 coding scheme
<i>text_len</i>	the number of UCS2 chars in SMS content(could be up to 70 char long)
<i>pdu</i>	the input buffer which is going to hold the final pdu
<i>pdu_size</i>	the size of input pdu buffer

Returns

if success a positive value represent number of pdu octets written, if fail a negative value represent error code

Index

~A6lib
A6lib, [7](#)

A6lib, [5](#)
~A6lib, [7](#)
A6lib, [6](#), [7](#)
addHandler, [7](#)
deleteSMS, [7](#)
getDeviceStatus, [8](#)
getFirmWareVer, [8](#)
getIMEI, [8](#)
getOperatorName, [8](#)
getRSSI, [9](#)
getRealTimeClock, [9](#)
getRealTimeClockString, [9](#)
getRegisterStatus, [9](#)
getSMSList, [10](#)
getSMSSca, [10](#)
getSignalQuality, [10](#)
handle, [11](#)
hardReset, [11](#)
onSMSReceived, [11](#)
onSMSSent, [11](#)
onSMSSStorageFull, [12](#)
powerUp, [12](#)
readSMS, [12](#)
sendCommand, [13](#)
sendPDU, [13](#)
sendSMS, [14](#)
sendUSSD, [14](#)
setCharSet, [14](#)
setSMSSStorageArea, [15](#)
softReset, [15](#)
start, [15](#)
waitForNetwork, [15](#)

A6lib.cpp, [19](#)
A6lib.h, [19](#)
CharSet, [20](#)
DeviceStatus, [21](#)
RegisterStatus, [21](#)
SMSRecordType, [21](#)
SMSSStorageArea, [22](#)
sms_full_cb_t, [20](#)
sms_rx_cb_t, [20](#)
sms_tx_cb_t, [20](#)
void_cb_t, [20](#)

addHandler
A6lib, [7](#)

CharSet

A6lib.h, [20](#)

dateTime
SMSInfo, [17](#)

deleteSMS
A6lib, [7](#)

DeviceStatus
A6lib.h, [21](#)

getDeviceStatus
A6lib, [8](#)

getFirmWareVer
A6lib, [8](#)

getIMEI
A6lib, [8](#)

getOperatorName
A6lib, [8](#)

getRSSI
A6lib, [9](#)

getRealTimeClock
A6lib, [9](#)

getRealTimeClockString
A6lib, [9](#)

getRegisterStatus
A6lib, [9](#)

getSMSList
A6lib, [10](#)

getSMSSca
A6lib, [10](#)

getSignalQuality
A6lib, [10](#)

handle
A6lib, [11](#)

hardReset
A6lib, [11](#)

message
SMSInfo, [17](#)

number
SMSInfo, [18](#)

onSMSReceived
A6lib, [11](#)

onSMSSent
A6lib, [11](#)

onSMSSStorageFull
A6lib, [12](#)

pdu.h, [22](#)

- [pdu_encode](#), [22](#)
 - [pdu_encodew](#), [23](#)
- [pdu_encode](#)
 - [pdu.h](#), [22](#)
- [pdu_encodew](#)
 - [pdu.h](#), [23](#)
- [powerUp](#)
 - [A6lib](#), [12](#)
- [readSMS](#)
 - [A6lib](#), [12](#)
- [RegisterStatus](#)
 - [A6lib.h](#), [21](#)
- [SMSInfo](#), [17](#)
 - [dateTime](#), [17](#)
 - [message](#), [17](#)
 - [number](#), [18](#)
 - [SMSInfo](#), [17](#)
- [SMSRecordType](#)
 - [A6lib.h](#), [21](#)
- [SMSStorageArea](#)
 - [A6lib.h](#), [22](#)
- [sendCommand](#)
 - [A6lib](#), [13](#)
- [sendPDU](#)
 - [A6lib](#), [13](#)
- [sendSMS](#)
 - [A6lib](#), [14](#)
- [sendUSSD](#)
 - [A6lib](#), [14](#)
- [setCharSet](#)
 - [A6lib](#), [14](#)
- [setSMSStorageArea](#)
 - [A6lib](#), [15](#)
- [sms_full_cb_t](#)
 - [A6lib.h](#), [20](#)
- [sms_rx_cb_t](#)
 - [A6lib.h](#), [20](#)
- [sms_tx_cb_t](#)
 - [A6lib.h](#), [20](#)
- [softReset](#)
 - [A6lib](#), [15](#)
- [start](#)
 - [A6lib](#), [15](#)
- [void_cb_t](#)
 - [A6lib.h](#), [20](#)
- [waitForNetwork](#)
 - [A6lib](#), [15](#)