A6Lib

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Contents

1	Clas	s Index			1
	1.1	Class	List		1
2	File	Index			3
	2.1	File Lis	st		3
3	Clas	s Docu	mentation	1	5
	3.1	A6lib C	Class Refe	rence	5
		3.1.1	Detailed	Description	6
		3.1.2	Construc	ctor & Destructor Documentation	6
			3.1.2.1	A6lib() [1/3]	6
			3.1.2.2	A6lib() [2/3]	7
			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()	8
			3.1.3.2	answer()	8
			3.1.3.3	checkCallStatus()	8
			3.1.3.4	deleteSMS()	8
			3.1.3.5	dial()	8
			3.1.3.6	enableSpeaker()	9
			3.1.3.7	getFirmWareVer()	9
			3.1.3.8	getIMEI()	9
			3139	getRealTimeClock()	q

ii CONTENTS

		3.1.3.10	getRegisterStatus()	9
		3.1.3.11	getRSSI()	10
		3.1.3.12	getSignalQuality()	10
		3.1.3.13	getSMSList()	10
		3.1.3.14	getSMSSca()	10
		3.1.3.15	handle()	11
		3.1.3.16	hangUp()	11
		3.1.3.17	hardReset()	11
		3.1.3.18	onSMSReceived()	11
		3.1.3.19	onSMSSent()	12
		3.1.3.20	onSMSStorageFull()	12
		3.1.3.21	powerUp()	12
		3.1.3.22	readSMS()	12
		3.1.3.23	redial()	13
		3.1.3.24	registerStatusToString()	13
		3.1.3.25	sendCommand()	13
		3.1.3.26	sendPDU() [1/2]	13
		3.1.3.27	sendPDU() [2/2]	14
		3.1.3.28	sendSMS()	14
		3.1.3.29	setCharSet()	15
		3.1.3.30	setPreferedStorage()	15
		3.1.3.31	setVol()	15
		3.1.3.32	softReset()	16
		3.1.3.33	start()	16
3.2	callInfo	Struct Re	ference	16
	3.2.1	Member	Data Documentation	16
		3.2.1.1	direction	17
		3.2.1.2	index	17
		3.2.1.3	mode	17
		3.2.1.4	multiparty	17
		3.2.1.5	number	17
		3.2.1.6	state	17
		3.2.1.7	type	17
3.3	SMSIn	fo Struct F	Reference	18
	3.3.1	Construc	tor & Destructor Documentation	18
		3.3.1.1	SMSInfo()	18
	3.3.2	Member	Data Documentation	18
		3.3.2.1	date	18
		3.3.2.2	message	18
		3.3.2.3	number	18

CONTENTS

4	File	Docum	entation		19
	4.1	A6lib.c	pp File Re	eference	19
	4.2	A6lib.h	File Refe	rence	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	Enumera	ation Type Documentation	20
			4.2.2.1	call_direction	20
			4.2.2.2	call_mode	21
			4.2.2.3	call_state	21
			4.2.2.4	RegisterStatus	21
			4.2.2.5	SMSRecordType	22
			4.2.2.6	SMSStorageArea	22
	4.3	pdu.h l	File Refere	ence	22
		4.3.1	Function	Documentation	23
			4.3.1.1	pdu_encode()	23
			4.3.1.2	pdu_encodew()	23

25

Index

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 modem	5
callInfo		16
SMSInfo		18

2 Class Index

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								 									 				2

File Index

Chapter 3

Class Documentation

3.1 A6lib Class Reference

A library for controlling Ai-Thinker A6 modem.

```
#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 (unsigned long baud, uint8_t max_retry)
- void powerUp (int pin)
- void hardReset (uint8 t pin)
- · void softReset ()
- String getFirmWareVer ()
- int8_t getRSSI ()
- uint8_t getSignalQuality ()
- String getRealTimeClock ()
- String getIMEI ()
- String getSMSSca ()
- RegisterStatus getRegisterStatus ()
- bool setPreferedStorage (SMSStorageArea)
- bool setCharSet (const String &charset)
- bool sendSMS (const String &number, const String &text)
- bool sendPDU (const String &number, const String &content)
- bool sendPDU (const String &number, wchar_t *content, uint8_t len)
- SMSInfo readSMS (uint8_t index)
- bool deleteSMS (uint8_t index)
- int8_t getSMSList (int8_t *buff, uint8_t len, SMSRecordType record)
- void dial (String number)
- void redial ()
- void answer ()
- void hangUp ()

- · callInfo checkCallStatus ()
- void setVol (byte level)
- void enableSpeaker (byte enable)
- 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)

Static Public Member Functions

• static String registerStatusToString (RegisterStatus)

3.1.1 Detailed Description

A library for controlling Ai-Thinker A6 modem.

An Arduino library for communicating with the AI-Thinker A6 GSM module, It currently supports ESP8266 and A← VR architectures. This small lib mainly intended for Ai-Thinker A6 modem but may possiblly 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.

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 recevied
- 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) 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

Constructs A6lib object with the given serial port.

3.1 A6lib Class Reference 7

Parameters

port | HardwareSerial object for use inside A6lib.

Constructs A6lib object with the given serial port.

Parameters

port SoftwareSerial object for use inside A6lib

Constructs A6lib object with the given pin numbers. this is done by creating new SoftwareSerial object.

Parameters

tx_pin	SoftwareSerial TX pin
rx_pin	SoftwareSerial RX pin

3.1.2.4 ∼A6lib()

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

Destroys A6lib object.

3.1.3 Member Function Documentation

3.1.3.1 addHandler()

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 answer()

```
void A6lib::answer ( )
```

3.1.3.3 checkCallStatus()

```
callInfo A6lib::checkCallStatus ( )
```

3.1.3.4 deleteSMS()

Delete a SMS from modem prefered storage area.

Parameters

Returns

true on success

3.1.3.5 dial()

3.1 A6lib Class Reference 9

3.1.3.6 enableSpeaker()

3.1.3.7 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.

3.1.3.8 getIMEI()

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

Get the modem IMEI.

Returns

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

3.1.3.9 getRealTimeClock()

```
String A6lib::getRealTimeClock ( )
```

Get the real time from modem.

Returns

if success a string contain time in format yy/mm/dd,hh:mm:ss+zz, if fail an empty string.

3.1.3.10 getRegisterStatus()

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

Get the network registration status of modem.

Returns

on of the RegisterStatus value

3.1.3.11 getRSSI()

```
int8_t 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.

3.1.3.12 getSignalQuality()

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

Get the modem signal quality level.

Returns

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

3.1.3.13 getSMSList()

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

Get the list of available SMS in prefered storage area.

Parameters

buff	input buffer to store SMS indexes.
len	size of buff
record	on of the SMSRecordType.

Returns

if fail -1, otherwise number of founded SMS.

3.1.3.14 getSMSSca()

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

Get the current SMS service center address from modem.

3.1 A6lib Class Reference

Returns

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

3.1.3.15 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.

3.1.3.16 hangUp()

```
void A6lib::hangUp ( )
```

3.1.3.17 hardReset()

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

pin the pin number which is connected to module reset(RST) pin.

3.1.3.18 onSMSReceived()

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

Parameters

cb pointer to callback function

3.1.3.19 onSMSSent()

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

Parameters

cb pointer to callback function

3.1.3.20 onSMSStorageFull()

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

Parameters

cb pointer to callback function

3.1.3.21 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 module. Module needs this pin to be high TTL for about 2 sec.

Parameters

pin the pin number which is connected to module PWR pin.

3.1.3.22 readSMS()

Read a SMS in modem prefered storage area

3.1 A6lib Class Reference 13

Parameters

dex sms index in storage area	index
-------------------------------	-------

Returns

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

3.1.3.23 redial()

```
void A6lib::redial ( )
```

3.1.3.24 registerStatusToString()

3.1.3.25 sendCommand()

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

Parameters

command	the command to be sent with AT prefix
reply_timeout	the timeout for modem to reply

Returns

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

3.1.3.26 sendPDU() [1/2]

Send an ASCII SMS in PDU mode.

Parameters

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

Returns

true on success

uint8_t len)

Send a UCS2 SMS in PDU mode.

Parameters

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

Returns

true on success

3.1.3.28 sendSMS()

Send SMS (in text mode) to specified number.

Parameters

number	valid destination number without +
text	SMS content in ascii encoding

3.1 A6lib Class Reference

Returns

true on success

3.1.3.29 setCharSet()

set the module charset.

Parameters

	charset	the required charset.	Could be on of the following:	GSM UCS2 HEX PCCP936
--	---------	-----------------------	-------------------------------	----------------------

Returns

true on success.

3.1.3.30 setPreferedStorage()

Set the modem prefered storage area. It's set to SMSStorageArea::ME by defualt.

Parameters

```
area could be on of the SMSStorageArea
```

Returns

true on success

3.1.3.31 setVol()

3.1.3.32 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().

3.1.3.33 start()

```
bool A6lib::start (
          unsigned long baud,
          uint8_t max_retry )
```

This is the A6lib object initlizer routine. you must call this usually once in setup routine.

Parameters

baud	the desired baud rate to start with
max_retry	the maximum number of time A6lib object try to etablish connection.

Returns

true on success

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

- · A6lib.h
- · A6lib.cpp

3.2 callinfo Struct Reference

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

Public Attributes

- int index
- call direction direction
- call_state state
- call_mode mode
- int multiparty
- String number
- int type

3.2.1 Member Data Documentation

3.2.1.1 direction

call_direction callInfo::direction

3.2.1.2 index

int callInfo::index

3.2.1.3 mode

call_mode callInfo::mode

3.2.1.4 multiparty

int callInfo::multiparty

3.2.1.5 number

String callInfo::number

3.2.1.6 state

call_state callInfo::state

3.2.1.7 type

int callInfo::type

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

• A6lib.h

3.3 SMSInfo Struct Reference

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

Public Member Functions

• SMSInfo ()

Public Attributes

- String number
- String date
- String message

3.3.1 Constructor & Destructor Documentation

```
3.3.1.1 SMSInfo()
```

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

3.3.2 Member Data Documentation

3.3.2.1 date

String SMSInfo::date

3.3.2.2 message

String SMSInfo::message

3.3.2.3 number

String SMSInfo::number

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

• A6lib.h

Chapter 4

File Documentation

4.1 A6lib.cpp File Reference

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

4.2 A6lib.h File Reference

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

Classes

- struct SMSInfo
- struct callInfo
- class A6lib

A library for controlling Ai-Thinker A6 modem.

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

20 **File Documentation**

Enumerations

```
    enum call_direction { DIR_OUTGOING = 0, DIR_INCOMING = 1 }

• enum call state {
 CALL_ACTIVE = 0, CALL_HELD = 1, CALL_DIALING = 2, CALL_ALERTING = 3,
 CALL_INCOMING = 4, CALL_WAITING = 5, CALL_RELEASE = 7 }
enum call_mode {
 MODE_VOICE = 0, MODE_DATA = 1, MODE_FAX = 2, MODE_VOICE_THEN_DATA_VMODE = 3,
 MODE VOICE AND DATA VMODE = 4, MODE VOICE AND FAX VMODE = 5, MODE VOICE THEN DATA DMODE
 = 6, MODE VOICE AND DATA DMODE = 7,
 MODE_VOICE_AND_FAX_FMODE = 8, MODE_UNKNOWN = 9 }
enum RegisterStatus {
 NotRegistered = 0, Registered_HomeNetwork = 1, Searching_To_Register = 2, Register_Denied = 3,
 Unknow = 4, Registered_Roaming = 5 }
• enum SMSStorageArea { ME = 1, SM }
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 call direction

enum call_direction

4.2 A6lib.h File Reference 21

Enumerator

DIR_OUTGOING	
DIR_INCOMING	

4.2.2.2 call_mode

enum call_mode

Enumerator

MODE_VOICE	
MODE_DATA	
MODE_FAX	
MODE_VOICE_THEN_DATA_VMODE	
MODE_VOICE_AND_DATA_VMODE	
MODE_VOICE_AND_FAX_VMODE	
MODE_VOICE_THEN_DATA_DMODE	
MODE_VOICE_AND_DATA_DMODE	
MODE_VOICE_AND_FAX_FMODE	
MODE_UNKNOWN	

4.2.2.3 call_state

enum call_state

Enumerator

4.2.2.4 RegisterStatus

enum RegisterStatus

22 File Documentation

Enumerator

NotRegistered	
Registered_HomeNetwork	
Searching_To_Register	
Register_Denied	
Unknow	
Registered_Roaming	

4.2.2.5 SMSRecordType

enum SMSRecordType

Enumerator

All	
Unread	
Read	

4.2.2.6 SMSStorageArea

enum SMSStorageArea

Enumerator

ME	
SM	

4.3 pdu.h File Reference

```
#include <stdint.h>
#include <wchar.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 wchar_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()

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

Parameters

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

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

Parameters

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

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24 File Documentation

Returns

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

Index

A6lib, 7 A6lib, 5 —A6lib, 7 A6lib, 6, 7 addHandler, 7 answer, 8 checkCallStatus, 8 deleteSMS, 8 dial, 8 enableSpeaker, 8 getFirmWareVer, 9 getRSSI, 9 getRealTimeClock, 9 getRedSMSSca, 10 getSignalQuality, 10 handle, 11 hardReset, 11 onSMSSereived, 11 onSMSSereived, 11 onSMSSeristatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 softReset, 21 call_direction A6lib, 8 call_mode A6lib, 12 call_state A6lib, 19 call direction, 16 direction, 16 direction, 16 direction, 16 direction, 16 direction, 17 number, 17 number, 17 state, 17 checkCallStatus A6lib, 8 direction callInfo, 16 date SMSInfo, 18 deleteSMS A6lib, 8 direction callInfo, 16 setPreferedStorage, 15 setPrefere	\sim A6lib	addHandler
A6lib, 5 A6lib, 6, 7 A6lib, 1, 20 Call_mode A6lib, 1, 21 Call_state A6lib, 1, 1 Call_drection A6lib, 1, 21 Call_state A6lib, 1, 1 Call_state A6lib, 1, 1 Call_drection A6lib, 1, 21 Call_state A6lib, 1, 1 Call_drection A6lib, 21 Call_drection, 16 Call_state A6lib, 19 Call_drection, 16 Call_state, 15 Sate, 17 CheckCallStatus A6lib, 9 Call_drection, 18 Call_drection, 16 Call_drectio	A6lib, 7	A6lib, 7
~A6lib, 7 A6lib, 6, 7 addHandler, 7 adswer, 8 checkCallStatus, 8 deleteSMS, 8 dial, 8 enableSpeaker, 8 getFirmWareVer, 9 getIMEI, 9 getRealTimeClock, 9 getSignalQuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSSenceived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 sendCommand, 13 sendCommand, 13 sendCommand, 13 sendCommand, 13 sendCommand, 13 sendCommand, 13 sendSeset, 15 setPreferedStorage,		answer
A6lib, 6, 7 addHandler, 7 adswer, 8 checkCallStatus, 8 deleteSMS, 8 dial, 8 enableSpeaker, 8 getFirmWareVer, 9 getIMEI, 9 getRegisterStatus, 9 getSMSList, 10 getSMSSca, 10 getSignalCuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSSenetived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 serdSmS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 22 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_rx_cb_t, 20 sms_rx_cb_t, 20 call_mode A6lib, 10 call_direction A6lib, h, 20 call_mode A6lib, h, 21 call_state A6lib, h, 21 call_state A6lib, h, 21 call_state A6lib, h, 21 call_mode A6lib, h, 21 call_state A6lib, h, 21 call_mode A6lib, h, 21 call_state A6lib, h, 21 call_state A6lib, h, 21 call_state A6lib, h, 21 call_mode A6lib, h, 21 call_state A6lib, h, 21 call_mode Afilb, 10 getSmSca A6lib, 10 getSignalQuality	•	A6lib, 8
addHandler, 7		
answer, 8	A6lib, 6, 7	call_direction
checkCallStatus, 8 deleteSMS, 8 dial, 8 enableSpeaker, 8 getFirmWareVer, 9 getIMEI, 9 getRSSI, 9 getRealTimeClock, 9 getSMSList, 10 getSMSList, 10 getSignalQuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendCommand, 13 sendCommand, 13 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 setPreferedStorage, 15 setTeferedStorage, 15 setTeferedStorage, 15 setSheset, 15 setPreferedStorage, 15 setSheset, 15 setPreferedStorage, 15 setSheset, 15 setPreferedStorage, 15 setSheset, 15 setPreferedStorage, 15 setSheset, 15 set	addHandler, 7	A6lib.h, 20
deleteSMS, 8	answer, 8	call_mode
dial, 8 enableSpeaker, 8 getFirmWareVer, 9 getIMEI, 9 getRSSI, 9 getRealTimeClock, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hargUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 softReset, 15 softRe	checkCallStatus, 8	A6lib.h, 21
enableSpeaker, 8 getFirmWareVer, 9 getIMEI, 9 getRSSI, 9 getRealTimeClock, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hargUp, 11 hardReset, 11 onSMSReceived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 softRes	deleteSMS, 8	call_state
getFirmWareVer, 9 getIMEI, 9 getRSSI, 9 getRealTimeClock, 9 getRegisterStatus, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib. cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSStorageArea, 22 sms_rx_cb_t, 20 sm	dial, 8	A6lib.h, 21
getIMEI, 9 getRSSI, 9 getRealTimeClock, 9 getRegisterStatus, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset,	enableSpeaker, 8	callInfo, 16
getIMEI, 9 index, 17 getRSSI, 9 mode, 17 getRealTimeClock, 9 multiparty, 17 getSgisterStatus, 9 number, 17 getSMSList, 10 state, 17 getSMSSca, 10 type, 17 getSignalQuality, 10 checkCallStatus handle, 11 A6lib, 8 hangUp, 11 date hardReset, 11 date onSMSReceived, 11 SMSInfo, 18 onSMSStorageFull, 12 A6lib, 8 powerUp, 12 dial readSMS, 12 A6lib, 8 redial, 13 direction registerStatusToString, 13 callInfo, 16 sendCommand, 13 callInfo, 16 sendSMS, 14 enableSpeaker A6lib, 8 A6lib, 8 deretion callInfo, 16 setPreferedStorage, 15 getFirmWareVer setVol, 15 getNew setVol, 15 getRes setVol, 15 getRes setVol, 19 getRes A6lib, 9 getRes getResiterStatus </td <td>getFirmWareVer, 9</td> <td>direction, 16</td>	getFirmWareVer, 9	direction, 16
getRSSI, 9 getRealTimeClock, 9 getRegisterStatus, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hargUp, 11 hardReset, 11 onSMSReceived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatus ToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 setPreferedStorage, 15 setVol, 15 softReset, 16 A6lib.pp, 19 A6lib.pp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_rx_cb_t, 20 s	getIMEI, 9	
getRealTimeClock, 9 multiparty, 17 getRegisterStatus, 9 number, 17 getSMSList, 10 state, 17 getSignalQuality, 10 type, 17 handle, 11 A6lib, 8 hangUp, 11 date hangUp, 11 SMSInfo, 18 hangUp, 11 deleteSMS nosMSSent, 11 deleteSMS nosMSStorageFull, 12 A6lib, 8 powerUp, 12 dial redal, 13 direction registerStatusToString, 13 callInfo, 16 sendCommand, 13 enableSpeaker sendCommand, 13 enableSpeaker sendPDU, 13, 14 enableSpeaker setVel, 15 getFirmWareVer setVol, 15 getRill, 9 setVol, 15 getRill, 9 setVol, 15 getRessI A6lib, 9 getRSSI A6lib, 9 getRSSI A6lib, 9 getRessI A6lib, 9 getRegisterStatus A6lib, 9 getRegisterStatus A6lib, 9 getRegisterStatus <td< td=""><td>getRSSI, 9</td><td></td></td<>	getRSSI, 9	
getRegisterStatus, 9 getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hargUp, 11 hardReset, 11 onSMSReceived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 16 softReset A6lib, 9 softReset A6lib, 9 softReset A6lib, 10 softR	getRealTimeClock, 9	
getSMSList, 10 getSMSSca, 10 getSignalQuality, 10 handle, 11 hargUp, 11 hardReset, 11 onSMSReceived, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPol, 15 softReset, 16 soft adde softs, 8 date softs, 8 softSib, 8 soft adde softs, 8 soft adde so	getRegisterStatus, 9	
getSMSSca, 10 getSignalQuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSSorageFull, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 setNeset, 15 setPreferedStorage, 15 setIndia, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_rx_cb_t, 2		,
getSignalQuality, 10 handle, 11 hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.cpp, 19 A6lib.cpp, 19 Call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_ru_cb_t, 20 sms_rx_cb_t, 20	getSMSSca, 10	,
handle, 11 hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 16 softReset, 16 softReset, 16 softReset,	-	•••
hangUp, 11 hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_tx_tx_tx_tx_tx_tx_tx_tx_tx_tx_tx_tx_tx_		
hardReset, 11 onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendPDU, 13, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_rx_cb_t, 20 sms_rx_cb_t, 20 dial sdeteSMS A6lib, 8 SMSInfo, 18 deleteSMS A6lib, 8 direction callInfo, 16 sdial registerStatus 7 A6lib, 8 direction callInfo, 16 serPreferedStorage, 15 getFirmWareVer A6lib, 9 getResiterFirmWareVer A6lib, 9 getRSSI A6lib, 9 getResiterStatus A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSignalQuality		710115, 0
onSMSReceived, 11 onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setNeset, 15 softReset, 15 start, 16 A6lib, p call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSInfo, 18 deleteSMS A6lib, 8 A6lib, 8 A6lib, 8 A6lib, 8 enableSpeaker enableSpeaker A6lib, 8 getFirmWareVer A6lib, 9 getRimEl A6lib, 9 getRSSI A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	- ·	date
onSMSSent, 11 onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 dial A6lib, 8 A6lib, 8 direction calllInfo, 16 aflip, 9 enableSpeaker A6lib, 8 enableSpeaker A6lib, 9 getFirmWareVer A6lib, 9 getFirmWareVer A6lib, 9 getRessI A6lib, 9 getRessI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSignalQuality	•	
onSMSStorageFull, 12 powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 dial adial A6lib, 8 diial A6lib, 8 diirection callladirection callInfo, 16 enableSpeaker A6lib, 8 getFirmWareVer A6lib, 9 getRefirmWareVer A6lib, 9 getRSSI A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSignalQuality		
powerUp, 12 readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_full_Cdiredtion, 20 getRedItineClock A6lib, 8 direction callinfo, 16 afolib, 8 enable Speaker afolib, 8 enableSpeaker afolib, 9 getFirmWareVer afolib, 9 getIMEI Afolib, 9 getRSSI Afolib, 9 getRealTimeClock Afolib, 9 getRegisterStatus Afolib, 10 getSignalQuality		
readSMS, 12 redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 softReset, 15 softReset, 15 softReset, 15 softReset, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tall_direction, 20 scallInfo, 16 direction callInfo, 16 sdirection callInfo, 16 enableSpeaker A6lib, 8 enableSpeaker A6lib, 9 getFirmWareVer A6lib, 9 getIMEI A6lib, 9 getResSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 10 getSignalQuality	-	•
redial, 13 registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 softReset, 15 softReset, 15 start, 16 A6lib.cpp, 19 Call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_rx_cb_t, 20	•	
registerStatusToString, 13 sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setReset, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_full_cdired set and set and set all makes and s		
sendCommand, 13 sendPDU, 13, 14 sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setReset, 15 softReset, 15 start, 16 A6lib.cpp, 19 A6lib.cpp, 19 Call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 setResetres enableSpeaker enableSpeaker A6lib, 8 setPreferedStorage, 15 getFirmWareVer A6lib, 9 getIMEI A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality		
sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib, 9 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 setFirmWareVer A6lib, 9 getRimeUlock A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	-	
sendSMS, 14 setCharSet, 15 setPreferedStorage, 15 setPreferedStorage, 15 softReset, 15 start, 16 A6lib, 9 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 sms_tx_cb_t, 20 setFirmWareVer A6lib, 9 getRimeUlock A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	sendPDU, 13, 14	enableSpeaker
setCharSet, 15 setPreferedStorage, 15 setVol, 15 softReset, 15 start, 16 A6lib, 9 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 getFirmWareVer A6lib, 9 getIMEI A6lib, 9 getRSSI A6lib, 9 getRealTimeClock A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality		•
setPreferedStorage, 15 setVol, 15 softReset, 15 start, 16 A6lib, 9 A6lib, 9 A6lib, p A6lib, p A6lib, p A6lib, p A6lib, p A6lib, p Call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 getFirmWareVer A6lib, 9 getIMEI A6lib, p getReSI A6lib, p getRealTimeClock A6lib, p getRegisterStatus A6lib, p getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	•	, -
setVol, 15 softReset, 15 start, 16 A6lib, 9 A6lib, 9 A6lib.cpp, 19 A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 getRelTimeClock A6lib, 9 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	•	getFirmWareVer
softReset, 15 getIMEI start, 16 A6lib, 9 A6lib.cpp, 19 getRSSI A6lib.h, 19 A6lib, 9 call_direction, 20 getRealTimeClock call_mode, 21 A6lib, 9 call_state, 21 getRegisterStatus RegisterStatus, 21 A6lib, 9 SMSRecordType, 22 getSMSList SMSStorageArea, 22 A6lib, 10 sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 getSignalQuality	5 ·	A6lib, 9
start, 16 A6lib, 9 A6lib.cpp, 19 getRSSI A6lib.h, 19 A6lib, 9 call_direction, 20 getRealTimeClock call_mode, 21 A6lib, 9 call_state, 21 getRegisterStatus RegisterStatus, 21 A6lib, 9 SMSRecordType, 22 getSMSList SMSStorageArea, 22 A6lib, 10 sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 getSignalQuality		getIMEI
A6lib.cpp, 19 getRSSI A6lib.h, 19 A6lib, 9 call_direction, 20 getRealTimeClock call_mode, 21 A6lib, 9 call_state, 21 getRegisterStatus RegisterStatus, 21 A6lib, 9 SMSRecordType, 22 getSMSList SMSStorageArea, 22 A6lib, 10 sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 getSignalQuality		A6lib, 9
A6lib.h, 19 call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSMSSca getSMSList A6lib, 10 getSMSSca A6lib, 10 getSignalQuality		getRSSI
call_direction, 20 call_mode, 21 call_state, 21 RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_tx_cb_t, 20 getRealTimeClock A6lib, 9 getRegisterStatus A6lib, 9 getSMSList A6lib, 10 getSMSSca getSMSSca A6lib, 10 getSignalQuality	• •	A6lib, 9
call_mode, 21 call_state, 21 getRegisterStatus RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_rx_cb_t, 20 sms_tx_cb_t, 20 getSignalQuality	•	getRealTimeClock
call_state, 21 getRegisterStatus RegisterStatus, 21 A6lib, 9 SMSRecordType, 22 getSMSList SMSStorageArea, 22 A6lib, 10 sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 A6lib, 10 sms_tx_cb_t, 20 getSignalQuality	_ :	A6lib, 9
RegisterStatus, 21 SMSRecordType, 22 SMSStorageArea, 22 sms_full_cb_t, 20 sms_rx_cb_t, 20 sms_tx_cb_t, 20 Rediib, 9 getSMSList A6lib, 10 getSMSSca A6lib, 10 getSMSSca A6lib, 10 getSignalQuality	_ '	
SMSRecordType, 22 getSMSList SMSStorageArea, 22 A6lib, 10 sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 A6lib, 10 sms_tx_cb_t, 20 getSignalQuality	- · · ·	• •
SMSStorageArea, 22 sms_full_cb_t, 20 sms_rx_cb_t, 20 sms_tx_cb_t, 20 getSMSSca A6lib, 10 getSignalQuality		
sms_full_cb_t, 20 getSMSSca sms_rx_cb_t, 20 A6lib, 10 sms_tx_cb_t, 20 getSignalQuality	- ·	ŭ
sms_rx_cb_t, 20 A6lib, 10 sms_tx_cb_t, 20 getSignalQuality	<u> </u>	
sms_tx_cb_t, 20 getSignalQuality		ŭ

26 INDEX

handle	sendSMS
A6lib, 11	A6lib, 14
hangUp	setCharSet
A6lib, 11	A6lib, 15
hardReset	setPreferedStorage
A6lib, 11	A6lib, 15
	setVol
index	A6lib, 15
callInfo, 17	sms_full_cb_t
managa	A6lib.h, 20
message SMSInfo, 18	sms_rx_cb_t
mode	A6lib.h, 20
callInfo, 17	sms_tx_cb_t
multiparty	A6lib.h, 20
callinfo, 17	softReset
Callino, 17	A6lib, 15
number	start
callInfo, 17	A6lib, 16
SMSInfo, 18	state
	callInfo, 17
onSMSReceived	
A6lib, 11	type
onSMSSent	callInfo, 17
A6lib, 11	void oh t
onSMSStorageFull	void_cb_t A6lib.h, 20
A6lib, 12	Adilb.II, 20
pdu.h, 22	
pdu_encode, 23	
pdu_encodew, 23	
pdu_encode	
pdu.h, 23	
pdu_encodew	
pdu.h, 23	
powerUp	
A6lib, 12	
,	
readSMS	
A6lib, 12	
redial	
A6lib, 13	
RegisterStatus	
A6lib.h, 21	
registerStatusToString	
A6lib, 13	
SMSInfo, 18	
date, 18	
message, 18	
number, 18	
SMSInfo, 18	
SMSRecordType	
A6lib.h, 22	
SMSStorageArea	
A6lib.h, 22	
sendCommand	
A6lib, 13	
sendPDU	
A6lib, 13, 14	
7.0110, 10, 17	