

**FUNCTIONS USED FOR COMMUNICATION WITH A6  
MODULE ON CRODUINO ETA BOARD DEFINED IN  
ETA\_AT LIBRARY**

Function name	Return value	Function variables	Function description
updateSerial()	void		Function enables the input of AT commands via Serial Monitor and forwards modules response to Serial Monitor
powerOn()	void		Function powers the A6 module on
powerOff()	void		Function powers the A6 module off
Test()	void		Function initializes all AT commands required for communication to begin.
SMSsend(char *addr, char*msg)	void	addr-number to which we want to send the SMS msg-message we're sending	Function sends an SMS message to the given number
SMSread(int x)	String	x-index on which SMS is written	Function reads the SMS message which is located on the given index(x) alongside with all the information that comes with an SMS (number of sender, date of reception) or, in case of an error, returns the number of said error
SMSdelete(int x)	String	x- index on which SMS that we want to delete is written	Function deletes the SMS which is located on the given index(x) or, in case of an error, returns the number of said error
SMSformat()	void		Function deletes all SMS messages that were stored to SIM card.
SMSlistAll()	void		Function lists all SMS messages stored on SIM to Serial Monitor
SMSlistUnread()	void		Function lists all unread SMS messages stored on SIM to Serial Monitor

SMSlistRead()	void		Function lists all read SMS messages stored on SIM to Serial Monitor
SMSnumber()	int		Function returns the number of SMS messages stored on sim
SMSnumberOfSender(String x)	String	x-String we got from SMSread()	From the String we got from SMSread() we get number of the sender and return it as a String variable
SMStext(String x)	String	x- String we got from SMSread()	From the String we got out of SMSread() we get message text of the SMS message and return it as a String variable
callMake(char *addr)	void	addr-number we want to dial	Function dials the given number
callAnswer()	void		Function answers the incoming call
callHangUp()	void		Function declines the incoming call
autoAnswerSettings(int x, int y)	void	x-number of „rings“ y=1(if we want to answer the incoming calls) ili y=2 2(if we want to decline incoming calls)	Function sets automatic call answering/declining after defined number of „rings“.
switchToSpeakers()	void		Function sets the speaker as a default communication device
switchToHeadphones()	void		Function sets headphones as a default communication device
enableTextMode()	void		Function switches from default PDU mode to an easier to read TEXT mode
enablePDUMode()	void		Function switches from TEXT mode to default PDU mode

begin(unsigned long speed)	void	Speed-value of baud rate we wish to set	Function sets baud rate for serial communication with A6 module
getSignalQuality()	int		Function returns the value of signal quality in 0-100 range
SIMgetID()	String		Function returns SIM ID
availableOperators()	String		Function returns available mobile networks as a String
currentOp()	String		Function returns mobile network code on which we are currently connected
ETA_AT()			Constructor for the class

If you'd wish for functions to write responses from A6 module to Serial Monitor you'll have to go to:

Arduino/libraries/ETA\_AT/src/ETA\_AT.h

and in that file uncomment line 7, #define DEBUG.

Function currentOp() returns mobile network code which you can find and check to which mobile network it belongs on:

<https://clients.txtnation.com/hc/en-us/articles/218719768-MCCMNC-mobile-country-code-and-mobile-network-code-list>