AT Commands (Attention Command)

* Commands always start with AT (which means ATtention) and finish with a character.
* If command syntax is incorrect, an **ERROR** string is returned.
* If command syntax is correct but with some **incorrect** **parameters**, the +CME ERROR: or +CMS ERROR: strings are returned with different error codes.
* If the command line has been performed successfully, an **OK** string is returned.
* AT – command to check
* AT+CPIN? – to detect sim card, +**CPIN READY \n OK, +CME ERROR 10** for present and absent respectively
* AT+CGSN for **IMEI**
* A/ for repeating last command
* AT+CPON stops the GSM Software
* AT+CPAS for phone activity status 0:ready,1:unavailable,2:unknown,3:ringer,4:call in progress,
* AT+CFUN? Tells the device functionality. OUTPUT: +CFUN:1 OK
* Device Status: AT+CPAS gives output +CPAS:0 OK, then device is ready.
* AT+CPIN? To detect PIN,PUK and readiness of device
* AT+CSMS=1, AT+CMGF=1 FOR receiving sms
* ATD+917987544964; for making a call
* AT+CMGL="ALL" for reading a message
* ***//Serial port flow control on host device and modem side.***  
  AT+IFC?
* +IFC: 0,0
* OK  
  No flow control on Terminal Equipment(TE) side ie Host Device.  
  No flow control on Terminal Adapter(TA) side ie Modem.
* ***//Clock***  
  AT+CCLK?  
  ?  
  +CCLK: "00/01/01,00:21:58+00"
* OK
* ***//Check if Simcom module is connected to the network***  
  AT+CGACT?
* +CGACT: 1,0  
  +CGACT: 2,0  
  +CGACT: 3,0
* OK  
  Device is NOT connected.
* ***//Simcom module QoS (Quality of Service) profiles***  
  AT+CGQREQ?
* +CGQREQ: 1,0,0,0,0,0  
  +CGQREQ: 2,0,0,0,0,0  
  +CGQREQ: 3,0,0,3,0,0
* OK  
  Following Quality of Service (QoS) profiles are available,
* CID-> 1  
  Precedence->0  
  Delay->0  
  Reliability->0  
  Peak->0  
  Mean->0
* CID-> 2  
  Precedence->0  
  Delay->0  
  Reliability->0  
  Peak->0  
  Mean->0
* CID-> 3  
  Precedence->0  
  Delay->0  
  Reliability->3  
  Peak->0  
  Mean->0  
  To be implemented.. Stay Tuned!!!
* ***//Current operator***  
  AT+COPS?
* +COPS: 0,0,"AT&T"
* OK  
  Device is currently on "AT&T" network.
* ***//SMS message config - Text or PDU mode***  
  AT+CMGF?
* +CMGF: 1
* OK  
  SMS message for is configured for Text mode
* ***//SMS message config - Text or PDU mode***  
  AT+CMGF?
* +CMGF: 1
* OK  
  SMS message for is configured for Text mode
* ***//Check if the device is ready for call***  
  AT+CCALR?
* +CCALR: 1
* OK  
  Device is ready for phone call.
* AT+IPR=0 // Enable auto bauding, this is enabled by default
* AT+IPR=1200 // Set baud rate to 1200 bps
* AT+IPR=2400 // Set baud rate to 2400 bps
* AT+IPR=9600 // Set baud rate to 9600 bps

<http://m2msupport.net/m2msupport/tutorial-for-simcom-m2m-modules/>