AT Command Usage

Commands are case sensitive and should end with /r/n
Commands may use 1 or more of these types
Set = AT+<x>=<...> - Sets the value
Inquiry = AT+<x>? - See what the value is set at
Test = AT+<x>=? - See the possible options
Execute = AT+<x> - Execute a command
Commands with * have been depreciated in favor of COMMAND_CUR and COMMAND_DEF.
      CUR will not write the value to flash,
      DEF will write the value to flash and be used as the default in the future.

AT Command List

AT - Attention
AT+RST - Reset the board
AT+GMR - Firmware version
AT+CWMODE* - Operating Mode
1. Client
2. Access Point
3. Client and Access Point
AT+CWJAP*=<ssid>,<pwd> - Join network
AT+CWLAP - View available networks
AT+CWQAP - Disconnect from network
AT+CWSAP*=<ssid>,<pwd><chl><ecn> - Set up access point
0. Open. No security
1. WEP
2. WPA_PSK
3. WPA2_PSK
4. WPA_WPA2_PSK
AT+CWLIF - Show assigned IP addresses as access point
AT+CIPSTATUS - Show current status as socket client or server
AT+CIPSTART=<type>,<addr>,<port> - Connect to socket server
IP is fixed at 192.168.4.1, mask is fixed at 255.255.255.0
if CIPMUX is set to multichanel add <id> to beginning of string
AT+CIPCLOSE - Close socket connection
AT+CIFSR - Show assigned IP address when connected to network
AT+CIPMUX=<mode> - Set connection
0. Single Connection
1. Multi-Channel Connection
AT+CIPSERVER=<mode>[,<port>](AT+CIPMUX=1) - Default port is 333
0. Close the Socket Server
1. Open the Socket Server
AT+CIPMODE=<mode> - Set transpartent mode
Data received will be sent to serial port as
0. +IPD,<connection channel>,<length>format (AT+CIPMUX=[0,1])
1. Data stream (AT+CIPMUX=0)
AT+CIPSTO=<time> - Set auto socket client disconnect timout
from 1-28800s

Example Commands

AT+CWMODE=? //View options for mode (test)
AT+CWMODE=3 //Set mode to client and access modes (set)
AT+CWLAP //View available networks (execute)
AT+CWJAP = "ssid","password" //Join network (set)
AT+CWJAP? //View the current network (inquiry)
AT+CIFSR //Show IP address (execute)
AT+CWQAP //Disconnect from network (execute)
AT+CWSAP="apoint","pass",11,0//Setup an open access point (set)
AT+CWLIF //Show devices connected to access point