ESP32 Comm Flow

**Initialize ESP32**

**(**Reset ESP32)

**AT+RST\r\n**

Return**:**

AT+RST\r\nOK\r\n

Or

AT+RST\r\nERROR\r\n

(Test ESP32 Connection)

**AT\r\n**

Return:

AT\r\nOK\r\n

Or

AT\r\nERROR\r\n

(Turn of echo)

**ATE0\r\n**

Return:

\r\nOK\r\n

Or

ATE0\r\nERROR\r\n

**Initialize ESP32 Networking**

(Switch ESP32 to the station mode)

**AT+CWMODE=1,0\r\n**

Return:

\r\nOK\r\n

Or

\r\nERROR\r\n

(Connect to AP)

**AT+CWJAP=[<ssid>],[<pwd>]\r\n**

Return:

WIFI CONNECTED\r\n

WIFI GOT IP\r\n

\r\n

OK\r\n

[WIFI GOT IPv6 LL]\r\n

[WIFI GOT IPv6 GL]\r\n

OR

\r\nERROR\r\n

**Initialize ESP32 MQTT broker connections**

(Configure MQTT User Conf)

**AT+MQTTUSERCFG=<LinkID>,<scheme>,<"client\_id">,<"username">,<"password">,<cert\_key\_ID>,<CA\_ID>,<"path">\r\n**

Return:

\r\nOK\r\n

Or

\r\nERROR\r\n

(Connect to MQTT broker)

**AT+MQTTCONN=<LinkID>,<"host">,<port>,<reconnect>\r\n**

Return:

\r\n+MQTTCONNECTED\r\n

Or

\r\nERROR\r\n

If user or user or pass which was configured MQTT broker will not authorize the client and it will return

\r\n +MQTTDISCONNECTED\r\n

(Subscribe to MQTT broker’s topic)

**AT+MQTTSUB=<LinkID>,<"host">,<port>,<reconnect>\r\n**

Return:

\r\nOK\r\n

Or

\r\nERROR\r\n

If client receives a packet it receives

\r\n+MQTTSUBRECV