WizFi360

MQTT Client

Version 1.0.0

Contents

1   Document Revision History

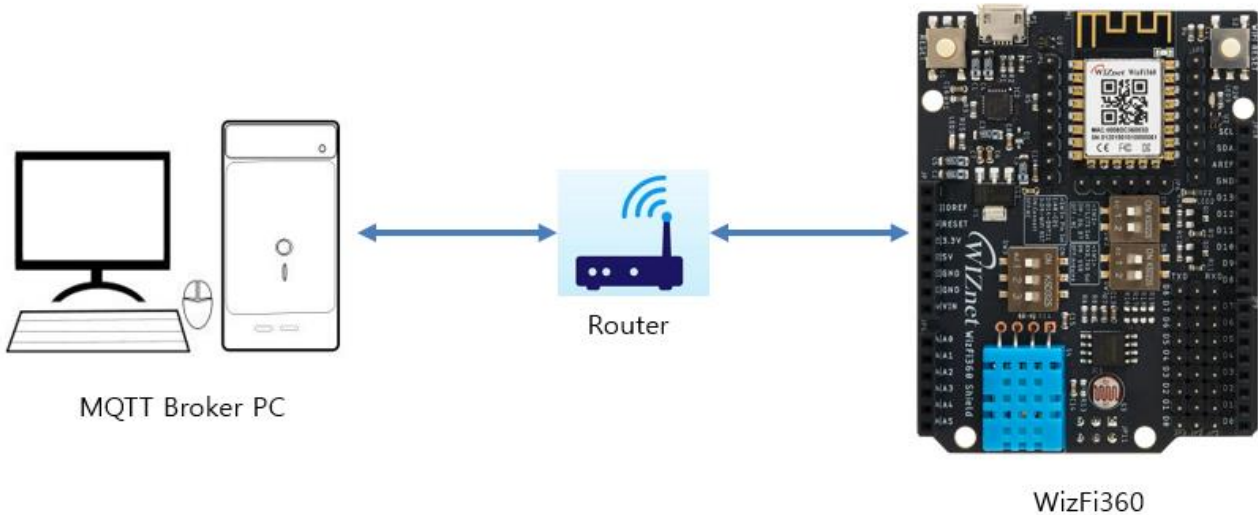| Version	Date	Descriptions
Ver. 1.0.0	14OCT2019	Initial Release

2   Introduction

MQTT is a light weight messaging protocol for use on top of the TCP/IP protocol. It is designed for connections with remote locations where a "small code footprint" is required or the network bandwidth is limited.It is a communication protocol which almost can link all networked objects with the external, and it is used as a sensor.
https://en.wikipedia.org/wiki/MQTT

3   Local Test Environment

Brokers acting as Mqtt Servers mainly use the Mosquitto program. Download and install the Mosquitto tool from the following link. https://mosquitto.org
Connect your Mosquitto-installed PC and WizFi360 to the same Router (AP).

Open a command prompt window and navigate to the path where Mosquitto is installed. (cd C: \ Program Files \ mosquitto)
Then run the following command: (mosquitto -c mosquitto.conf -p 1883 -v) 1883 is the port number, and Mqtt usually uses the 1883 port number.

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4 WizFi360 Commands

Use the following command to connect.

- **Station Mode**

AT command	Terminal
AT **AT+CWMODE_CUR=1** **AT+CWDHCP_CUR=1,1** **AT+CWLAP** **AT+CWJAP_CUR="ssid","password"** **AT+CIPSTA_CUR?**	AT<CR><LF> <CR><LF> OK<CR><LF> AT+CWMODE_CUR=1<CR><LF> <CR><LF> OK<CR><LF> AT+CWDHCP_CUR=1,1<CR><LF> <CR><LF> OK<CR><LF> AT+CWLAP<CR><LF> +CWLAP:(4,"DIR-815_Wiznet",-59,"▯",1)<CR><LF> +CWLAP:(0,"ESP_574935",-71,"▯",1)<CR><LF> +CWLAP:(3,"##WIZnet_irina",-46,"▯",1)<CR><LF> +CWLAP:(3,"Matthew2.4",-63,"▯",2)<CR><LF> +CWLAP:(3,"rena",-46,"▯",3)<CR><LF> +CWLAP:(0,"iptime",-67,"▯",4)<CR><LF> +CWLAP:(3,"Dap",-63,"▯",5)<CR><LF> +CWLAP:(0,"ESP_577CC7",-67,"▯",6)<CR><LF> +CWLAP:(3,"wizms1",-63,"▯",6)<CR><LF> +CWLAP:(0,"Wizfi360",-69,"▯",6)<CR><LF> +CWLAP:(4,"DLINK-IPv6",-55,"▯",10)<CR><LF> +CWLAP:(0,"iptime",-59,"▯",11)<CR><LF> +CWLAP:(3,"WIZnet_Scott",-51,"▯",11)<CR><LF> +CWLAP:(0,"WizFi360_A1B2D1",-69,"▯",11)<CR><LF> +CWLAP:(3,"Teddy_AP",-57,"▯",13)<CR><LF> <CR><LF> OK<CR><LF> AT+CWJAP_CUR="w▯1","▯"<CR><LF> WIFI DISCONNECT<CR><LF> WIFI CONNECTED<CR><LF> WIFI GOT IP<CR><LF> <CR><LF> OK<CR><LF> AT+CIPSTA_CUR?<CR><LF> +CIPSTA_CUR:ip:"192.168.1.120"<CR><LF> +CIPSTA_CUR:gateway:"192.168.1.1"<CR><LF> +CIPSTA_CUR:netmask:"255.255.255.0"<CR><LF> <CR><LF> OK<CR><LF>

- **MQTT Connect & Data Publish**

AT command	Terminal
AT+MQTTSET="USER_ID","PASSWORD","CLIENT_ID",60 AT+MQTTTOPIC="PUB_TOPIC","SUB_TOPIC" AT+MQTTCON=0,"192.168.1.102",1883 AT+MQTTPUB="0123456789"	AT+MQTTSET="USER_ID","PASSWORD","CLIENT_ID",60\<CR>\<LF> AT+MQTTSET="USER_ID","PASSWORD","CLIENT_ID",60\<CR>\<LF> \<CR>\<LF> OK\<CR>\<LF> AT+MQTTTOPIC="PUB_TOPIC","SUB_TOPIC"\<CR>\<LF> AT+MQTTTOPIC="PUB_TOPIC","SUB_TOPIC"\<CR>\<LF> \<CR>\<LF> OK\<CR>\<LF> AT+MQTTCON=0,"192.168.1.102",1883\<CR>\<LF> AT+MQTTCON=0,"192.168.1.102",1883\<CR>\<LF> CONNECT\<CR>\<LF> \<CR>\<LF> OK\<CR>\<LF> AT+MQTTPUB=??0123456789??\<CR>\<LF> AT+MQTTPUB=??0123456789??\<CR>\<LF> \<CR>\<LF> OK\<CR>\<LF>

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