

WizFi360

MQTT Client

Version 1.0.0



<http://www.wiznet.io/>

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1 Document Revision History

Version	Date	Descriptions
Ver. 1.0.0	14OCT2019	Initial Release

2 Introduction

MQTT 는 TCP / IP 프로토콜 위에 사용하기위한 경량 메시징 프로토콜입니다. “소규모 코드 풋 프린트”가 필요하거나 네트워크 대역폭이 제한된 원격 위치와의 연결을 위해 설계되었습니다.

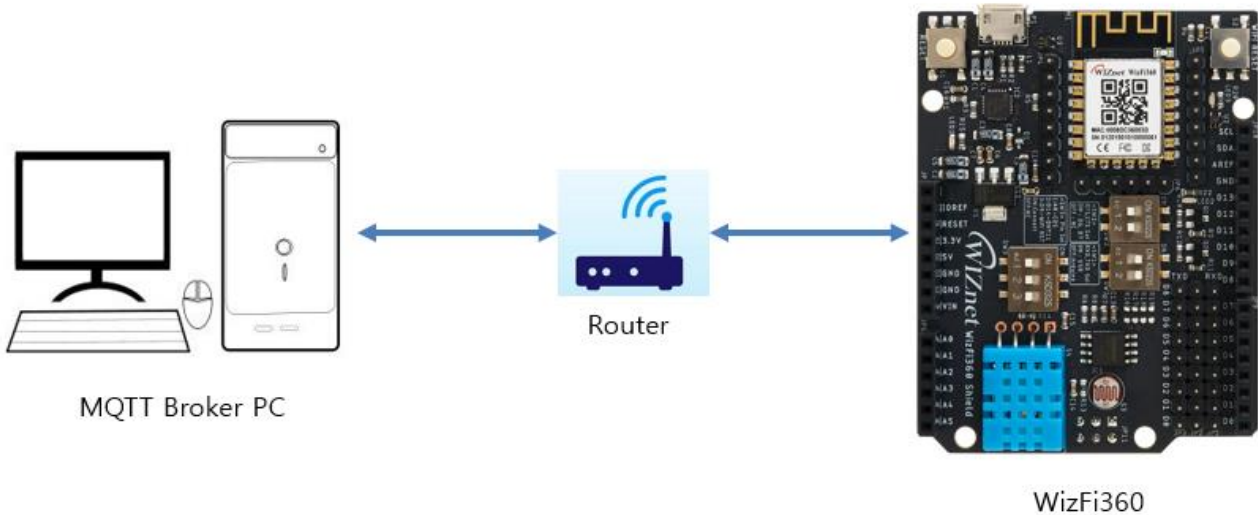
네트워크로 연결된 모든 객체를 외부와 거의 연결할 수 있는 통신 프로토콜이며 센서로 사용됩니다.

<https://en.wikipedia.org/wiki/MQTT>

3 Local Test Environment

Mqtt Server 역할을 하는 Broker 는 주로 Mosquitto 프로그램을 사용한다. 다음 링크에서 Mosquitto 툴을 다운로드 후 설치 한다. <https://mosquitto.org>

Mosquitto 를 설치한 PC 와 WizFi360 을 같은 Router(AP)에 연결한다.



명령 프롬프트 창을 열고 Mosquitto 가 설치된 경로로 이동한다. (cd C:\Program Files\mosquitto)

그리고 다음 명령어로 실행한다. (mosquitto -c mosquitto.conf -p 1883 -v) 1883 은 port 번호로, Mqtt 는 주로 1883 포트 번호를 사용한다.

```

C:\Windows\System32\cmd.exe - mosquitto -c mosquitto.conf -p 1883 -v
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Program Files\mosquitto>mosquitto -c mosquitto.conf -p 1883 -v
1571015593: mosquitto version 1.5.5 starting
1571015593: Config loaded from mosquitto.conf.
1571015593: Opening ipv6 listen socket on port 1883.
1571015593: Opening ipv4 listen socket on port 1883.
    
```

4 WizFi360 Commands

WizFi360 에서는 아래와 같은 명령어를 사용하여 접속한다.

- 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?	<pre> 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="v1","i"<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> </pre>

- 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"	<pre> 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> </pre>

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