

# 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

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## 2 Introduction

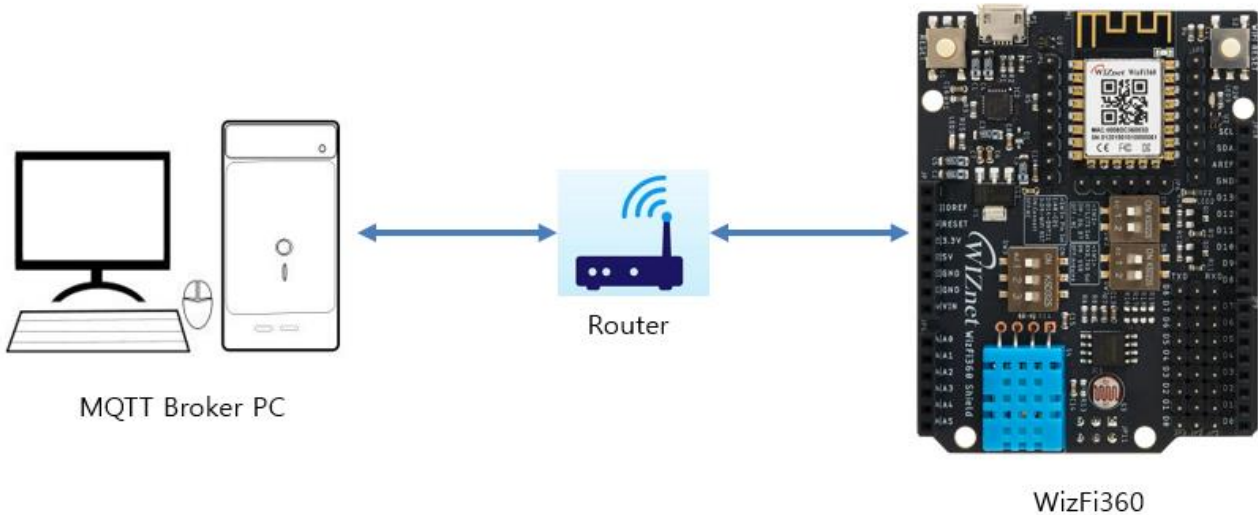
MQTT is a light weight messaging protocol for use on top of the TCP/IP protocol. It is designed for connections with remote locations where a “small code footprint” is required or the network bandwidth is limited. It is a communication protocol which almost can link all networked objects with the external, 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.

```
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

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?	<pre> AT&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+CWMODE_CUR=1&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+CWDHCP_CUR=1,1&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+CWLAP&lt;CR&gt;&lt;LF&gt; +CWLAP:(4,"DIR-815_Wiznet",-59,"[redacted]",1)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"ESP_574935",-71,"[redacted]",1)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"#WIZnet_irina",-46,"[redacted]",1)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"Matthew2.4",-63,"[redacted]",2)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"rena",-46,"[redacted]",3)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"iptime",-67,"[redacted]",4)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"Dap",-63,"[redacted]",5)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"ESP_577CC7",-67,"[redacted]",6)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"wizms1",-63,"[redacted]",6)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"Wizfi360",-69,"[redacted]",6)&lt;CR&gt;&lt;LF&gt; +CWLAP:(4,"DLINK-IPv6",-55,"[redacted]",10)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"iptime",-59,"[redacted]",11)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"WIZnet_Scott",-51,"[redacted]",11)&lt;CR&gt;&lt;LF&gt; +CWLAP:(0,"WizFi360_A1B2D1",-69,"[redacted]",11)&lt;CR&gt;&lt;LF&gt; +CWLAP:(3,"Teddy_AP",-57,"[redacted]",13)&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+CWJAP_CUR="v[redacted]1","[redacted]"&lt;CR&gt;&lt;LF&gt; WIFI_DISCONNECT&lt;CR&gt;&lt;LF&gt; WIFI_CONNECTED&lt;CR&gt;&lt;LF&gt; WIFI_GOT_IP&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+CIPSTA_CUR?&lt;CR&gt;&lt;LF&gt; +CIPSTA_CUR:ip:"192.168.1.120"&lt;CR&gt;&lt;LF&gt; +CIPSTA_CUR:gateway:"192.168.1.1"&lt;CR&gt;&lt;LF&gt; +CIPSTA_CUR:netmask:"255.255.255.0"&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; </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&lt;CR&gt;&lt;LF&gt; AT+MQTTSET="USER_ID","PASSWORD","CLIENT_ID",60&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+MQTTTOPIC="PUB_TOPIC","SUB_TOPIC"&lt;CR&gt;&lt;LF&gt; AT+MQTTTOPIC="PUB_TOPIC","SUB_TOPIC"&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+MQTTCON=0,"192.168.1.102",1883&lt;CR&gt;&lt;LF&gt; AT+MQTTCON=0,"192.168.1.102",1883&lt;CR&gt;&lt;LF&gt; CONNECT&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt; AT+MQTTPUB=?0123456789??&lt;CR&gt;&lt;LF&gt; AT+MQTTPUB=?0123456789??&lt;CR&gt;&lt;LF&gt; &lt;CR&gt;&lt;LF&gt; OK&lt;CR&gt;&lt;LF&gt;           </pre>

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