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SIM7600M22_MIFI_RTL_Ap plication Note

LTE Module

Document Title:	SIM7600M22_MIFI_RTL_Application Note
Version:	2.00
Date:	2020.8.6
Status:	Released

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About Document

Version History

Version	Date	Owner	What is new
V2.00	2020.8.6		Update document format

Contents

1.Introduction

1.1 Purpose of the document

This document gives the usage of SIM7600M22 MIFI functions. User can get useful information about the SIM7600M22 MIFI functions quickly through this document.

The MIFI functions are provided in AT command format, and they are designed for customers to design their MIFI applications easily. User can access these MIFI AT commands through UART/ USB interface which communicates with SIM7600CE-A/SIM7600CE-T module.

2.AT Commands for MIFI

Command	Description
AT+CWMAP	Open/Close WIFI
AT+CWSSID	SSID setting
AT+CWBCAST	Broadcast setting
AT+CWAUTH	Authentication setting
AT+CWMOCH	80211 mode and channel setting
AT+CWISO	Client isolation setting
AT+CWDHCP	Get the current DHCP configuration
AT+CWNAT	NAT type setting
AT+CWCLICNT	Get client number connected to the WIFI
AT+CWRSTD	Restore to default setting
AT+CWMAPCFG	WIFI configuration setting
AT+CWLANSRV	LAN Server setting
AT+CWLANMSG	Send message
AT+CWLANMGET	Manual get cached bytes
AT+CWMACADDR	Get MAC address
AT+CWNETCNCT	Qurey the connection to the network
AT+CWSTAIP	Get STA mode IP address
AT+CWSTASCAN	Scan WIFI network
AT+CWSTACFG	STA mode configuration setting
AT+CWUSRINFO	Auth info of wifi data call setting

For detail information, please refer to "SIM7600 Series_AT Command Manual ".

3.WIFI Samples

3.1 Relation AT Configure

3.1.1 Open WIFI

```
//Example of Open WIFI
AT+CWMAP=1
OK
```

3.1.2 SSID Setting

```
//Example of scan SSID setting
AT+CWSSID="7600MIFI"
OK
```

3.1.3 Broadcast setting

```
//Example of pair with broadcast setting
AT+CWBCAST=1
OK
```

3.1.4 Authentication setting

```
//Example of authentication setting
AT+CWAUTH=2,1,"313abc"
OK
```

3.1.5 80211 mode and channel setting

//Example of 80211mode and channel setting
AT+CWMOCH=3,1
OK

3.1.6 WIFI configuration setting

//Example of WIFI configuration setting
AT+CWMAPCFG="enablessid2",1
OK

3.1.7 LAN server setting

//Example of LAN server setting
AT+CWLANSRV=0,44444,1
OK

AT+CWLANSRV=1
OK
+CWLANMSG: 10

+CWLANMSG: 20

+CWLANMSG: 30

+CWLANMSG: 40

+CWLANMSG: 50

3.1.8 Scan WIFI network

```
//Example of WIFI scan
AT+CWSTASCAN
+CWSTASCAN:
f4:83:cd:d8:24:c8,TP-LINK_24C8,-52
80:89:17:10:e6:23,TP-LINK_SW2,-58
14:2d:27:24:98:61,Public,-58
bc:46:99:38:e2:ca,TP-LINK_E2CA,-64
0c:72:d9:49:25:8b,nubia-WD670-258B,-92
50:2b:73:c0:aa:d9,Tenda_C0AAD9,-68

OK
```

3.1.9 STA mode configuration setting

```
//Example of STA mode setting
AT+CWSTASCFG="simtest",,,"1234567890"

OK
```

3.2   Coexistence with MIFI

3.2.1 PPP-DIALUP when MIFI is running

When MIFI is running on the SIM7600CE/SIM7800 module, the PPP-dialup only works on another pdp context if the network supports(LTE and UMTS). In 1xEvDo mode, the PPP cannot work when the MIFI is working.

3.2.2 RMNET when MIFI is running

When MIFI is running on the SIM7600CE/SIM7800 module, the rmnet-dialup only works on another pdp context if the network supports (LTE and UMTS). In 1xEvDo mode, the rmnet-dialup cannot work when the MIFI is working.