GigaDevice Semiconductor Inc.

GD32VW553 AT Command User Guide

Application Notes AN151

Revision 1.1

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Table of Contents

Table	of Contents	2
List of	f Tables	4
1.	AT command formats	5
1.1.	Command types	5
1.2.	Command formats	5
1.3.	Response formats	5
2 .	List of AT commands	6
3.	AT basic command set	7
3.1.	AT	7
3.2.	ATQ	7
3.3.	AT+HELP	7
3.4.	AT+RST	8
3.5.	AT+GMR	8
3.6.	AT+TASK	8
3.7.	AT+HEAP	9
3.8.	AT+SYSRAM	9
3.9.	AT+UART	10
3.10	. AT+TRANSINTVL	10
4.	AT WiFi command set	12
4.1.	AT+CWMODE_CUR	12
4.2.	AT+CWJAP_CUR	12
4.3.	AT+CWLAP	13
4.4.	AT+CWSTATUS	13
4.5.	AT+CWQAP	14
4.6.	AT+CWSAP_CUR	14
4.7.	AT+CWLIF	15
4.8.	AT+CWAUTOCONN	15
5 . <i>i</i>	AT TCPIP command set	16
5 1	AT+PING	16





	5.2.	. AT+CIPSTA	16
	5.3.	. AT+CIPSTART	17
	5.4.	. AT+CIPSEND	18
	5.5.	. AT+CIPSERVER	19
	5.6.	. AT+CIPCLOSE	20
	5.7.	. AT+CIPSTATUS	20
	5.8.	. AT+CIFSR	21
	5.9.	. AT+CIPMODE	21
6.		Revision history	22



List of Tables

Table 1-1. Command types	5
Table 1-2. Command formats	5
Table 1-3. Response formats	5
Table 2-1. AT commands	6
Table 3-1. Entering AT command mode	7
Table 3-2. Exiting AT command mode	7
Table 3-3. Querying all AT commands	7
Table 3-4. Module reset command	8
Table 3-5. Querying version information	8
Table 3-6. Querying all tasks of the current operating system	8
Table 3-7. Querying the free HEAP of the current operating system	9
Table 3-8. Querying the current free SRAM space	9
Table 3-9. Querying or setting serial port parameters	10
Table 3-10. Querying or setting the Data Transmission Interval in passthrough mode	10
Table 4-1. Querying or setting the current WiFi operating mode	12
Table 4-2. Querying the information of connected AP or connecting to AP	12
Table 4-3. Scanning and listing surrounding AP information	13
Table 4-4. Querying WiFi status, STA, SoftAP, or MONITOR	13
Table 4-5. Disconnecting from AP	14
Table 4-6. Starting SoftAP	14
Table 4-7. Viewing clients connected to SoftAP	15
Table 4-8. Setting whether to automatically connect to the AP after power-on	15
Table 5-1. Ping function	16
Table 5-2. Querying or setting the IP address of the local STA	16
Table 5-3. Creating TCP connection or UDP transfer	17
Table 5-4. Sending data	18
Table 5-5. Starting the TCP server	19
Table 5-6. Closing TCP connection or UDP transfer	20
Table 5-7. Querying network connection information	20
Table 5-8. Querying local IP address information	21
Table 5-9. Querying or Setting the Transmission Mode	21
Table 6-1 Povision history	22



1. AT command formats

1.1. Command types

Table 1-1. Command types

Туре	Format	Description
Help command	AT+ <x>=?</x>	View command parameters and value ranges
Query command	AT+ <x>?</x>	Query the current parameter value of the specified target
Execution	AT+ <x> or</x>	Run command
command	AT+ <x>=<></x>	Set the specified target parameter value

1.2. Command formats

Table 1-2. Command formats

Field	Description	
AT	Command prefix	
<cmd></cmd>	Command string	
[]	Optional part	
<>	Mandatory part. For specific commands, some parameters are mandatory to be	
	entered	
[p1],[p2],[p3],	Parameters, which support both strings and numbers. Enter the IP address in	
the string format "x.x.x.x"		
String: Must be enclosed in double quotation marks		
Number: Both decimal and hexadecimal numbers are supported		

Note: AT [+<CMD>] [=] [p1],[p2],[p3],

1.3. Response formats

Table 1-3. Response formats

Output type	Description	
[+ <cmd>:<msg>]</msg></cmd>	Output result or error prompt	
<rsp></rsp>	OK: success	
	ERROR: failure	

Note: The Chinese characters in the response format are only explanations of the command response and are not actually displayed.



2. List of AT commands

Table 2-1. AT commands

Command	Description	
AT	Enter AT command mode	
ATQ	Exit AT command mode	
AT+HELP	Query all AT commands	
AT+RST	Module reset	
AT+GMR	Query version information	
AT+TASK	Query all tasks of the current operating system	
AT+HEAP	Query the free HEAP of the current operating system	
AT+SYSRAM	Query the current free SRAM space	
AT+UART	Set the LOG UART parameter or read the current parameter	
AT+TRANSINTVL	Query or set the data transmission interval in passthrough mode	
AT+CWMODE_CUR	Query or set the current WiFi operating mode: SoftAP or STA	
AT+CWJAP_CUR	Connect to AP	
AT+CWLAP	Scan and display the AP list	
AT+CWSTATUS	Query the current WiFi operating mode and status	
AT+CWQAP	Disconnect from AP	
AT+CWSAP_CUR	Start the SoftAP mode	
AT+CWLIF	Query information about all STAs connected to SoftAP	
AT+CWAUTOCONN	Set whether to automatically connect to the AP after power-on	
AT+PING	Ping function	
AT+CIPSTA	Query or set the IP address of the local STA	
AT+CIPSTA RT	Create TCP connection or UDP transfer	
AT+CIPSEND	Send data	
AT+CIPSERVER	Start the TCP server	
AT+CIPCLOSE	Close TCP connection or UDP transfer	
AT+CIPSTATUS	Query network connection information	
AT+CIFSR	Query local IP address information	
AT+CIPMODE	Query or set the Transmission mode	



3. AT basic command set

3.1. AT

Table 3-1. Entering AT command mode

Command	Parameters	Response
Execution command		Execution result
AT		
Example:		
AT		
Correct response:		
ОК		

3.2. ATQ

Table 3-2. Exiting AT command mode

Command	Parameters	Response
Execution command		Execution result
ATQ		
Example:		
ATQ		
Correct response:		
OK		

3.3. AT+HELP

Table 3-3. Querying all AT commands

Command	Parameters	Response	
Execution command		Display the list of all AT commands	
AT+HELP			
Example:			
AT+HELP			
Correct response:			
AT COMMAIND LIST:	AT COMMAIND LIST:		
=======================================	=======================================		
ATQ	ATQ		
AT+HELP			
OK .			



3.4. AT+RST

Table 3-4. Module reset command

Command	Parameters	Response
Execution command		Restart message
AT+RST		
Example:		
AT+RST		

Correct response: ALW: MBL: First print.

ALW: MBL: Boot from Image 0.
ALW: MBL: Validate Image 0 OK.

ALW: MBL: Jump to Main Image (0x800a000).

Build date: 2023/07/06 17:34:18 === RF initialization finished ===

=== WiFi version: v1.0.0

=== PHY initialization finished ===

3.5. AT+GMR

Table 3-5. Querying version information

		Response (similar format		
Command	Parameters	information)		
Execution command		Related version information		
AT+GMR				
Example:				
AT+GMR				
Correct response:				
=======================================				
SDK revision: v1.0.0				
SDK git revision: 0.1.0-487-gb2937736-b2937736b33393b3				

SDK build date: 2023/07/03 15:23:20

OK

3.6. AT+TASK

Table 3-6. Querying all tasks of the current operating system

Command	Parameters	Response (similar format information)
Execution command		Current task information list
AT+TASK		

Com m and				Pa	rameters	Response (similar format information)
Example:						
AT+TASK						
Correct response:						
ATCMD	Χ	20	383	2	0x200198a0	
RX	В	18	383	4	0x2001af78	
ОК						

3.7. AT+HEAP

Table 3-7. Querying the free HEAP of the current operating system

Command	Parameters	Response (similar format information)		
Execution command		HEAP usage		
AT+HEAP				
Example:				
AT+HEAP				
Correct response:				
=======================================				
Total free heap size = 113784				
Total min free heap size = 109480				
ОК				

3.8. AT+SYSRAM

Table 3-8. Querying the current free SRAM space

Command	Parameters	Response (similar format information)		
Execution command		Remaining SRAM space		
AT+SYSRAM				
Example:				
AT+SYSRAM				
Correct response:				
=======================================				
Free SRAM size = 108472				
OK				



3.9. AT+UART

Table 3-9. Querying or setting serial port parameters

Command	Parameters	Response
Help command		+UART= <baudrate>,<databits>,<stopb< td=""></stopb<></databits></baudrate>
AT+UART=?		its>, <parity>,<flow control=""></flow></parity>
Query command		Current serial port parameter
AT+UART?		
Execution command	<baudrate>: UART baud rate</baudrate>	Execution result
AT+UART= <baudrate>,<da< td=""><td><databits>: Data bit</databits></td><td></td></da<></baudrate>	<databits>: Data bit</databits>	
tabits>, <stopbits>,<parity>,</parity></stopbits>	8: 8 bit	
<flow control=""></flow>	<stopbits>: Stop bit</stopbits>	
	1: 1 bit	
	2: 1.5 bit	
	3: 2 bit	
	<parity>: parity bit</parity>	
	0: None	
	1: Odd	
	2: Even	
	<flow control="">: Flow control</flow>	
	0: Disable flow control	
	1: Enable RTS	
	2: Enable CTS	
	3: Enable both RTS and CTS	

Example: Query current serial port parameter

AT+UART=115200,8,1,0,0

Correct response:

+UART: 115200, 8, 1, 0, 0

OK

3.10. AT+TRANSINTVL

Table 3-10. Querying or setting the Data Transmission Interval in passthrough mode

Command	Parameters	Response
Help command		+TRANSINTVL= <interval></interval>
AT+TRANSINTVL=?		
Query command		Current Transmission Interval
AT+TRANSINTVL?		+TRANSINTVL: <interval></interval>
Execution command	<interval>: Data transmission</interval>	Execution result
AT+TRANSINTVL	interval. Unit: milliseconds.	
= <interval></interval>	Default value: 20.	



	Command	Parameters	Response
Exan	nple:		
AT+1	RANSINTVL=800		
Corre	ect Resonse:		
OK			



4. AT WiFi command set

4.1. AT+CWMODE_CUR

Table 4-1. Querying or setting the current WiFi operating mode

Command	Parameters	Response
Help command		+CWMODE_CUR: <mode:0-2></mode:0-2>
AT+CWMODE_CUR=?		
Query command		Current operating mode
AT+CWMODE_CUR?		+CWMODE_CUR: <mode></mode>
Execution command	<mode>:</mode>	Execution result
AT+CWMODE_CUR= <mode></mode>	0: MONITOR mode	
	1: STA mode	
	2: Soft AP mode	
Example:		
AT+CWMODE_CUR=2		
Correct response:		
ОК		

4.2. AT+CWJAP_CUR

Table 4-2. Querying the information of connected AP or connecting to AP

. , ,		•
Command	Parameters	Response
Help command		+CWJAP_CUR= <ssid>,<pw d=""></pw></ssid>
AT+CWJAP_CUR=?		
Query command		+CWJAP_CUR:
AT+CWJAP_CUR?		<ssid>,<mac>,<channel>,<rssi></rssi></channel></mac></ssid>
Execution command	<ssid>: String parameter</ssid>	Execution result
AT+CWJAP_CUR= <ssid>,</ssid>	<pw d="">: String parameter</pw>	
<pw d=""></pw>		
	·	<u> </u>

Example 1:

AT+CWJAP_CUR="totolink","12345678"

Correct response 1:

Connect Successful: Aid 9

Got IP 192.168.2.3

OK

Example 2:

AT+CWJAP_CUR="tplink",""

Correct response 2:

Response

Command	Parameters	Response
Connect Successful: Aid 1		
Got IP 192.168.3.26		
OK		

4.3. AT+CWLAP

Command

Table 4-3. Scanning and listing surrounding AP information

Parameters **Parameters**

Communa	T di dill'otoro	Response		
Help command		+CWLAP: [ssid]		
AT+CWLAP=?				
Execution command	<ssid>: String parameter</ssid>	Scan results		
AT+ CWLAP[= <ssid>]</ssid>		+CWLAP:		
		<ssid>,<rssi>,<mac>,<channel>,<encr< td=""></encr<></channel></mac></rssi></ssid>		
		ypt>		
Example 1:				
AT+CWLAP				
Correct response 1:				
+CWLAP: iQOO Neo5, -44,	d6:4f:86:cb:c8:d0, 1, WPA2 C	CMP;		
+CWLAP: GD-guest, -43, 08	3:3a:38:cc:2f:d1, 1, OPEN ;			
+CWLAP: OpenWrt, -33, c4:70:ab:d9:bd:11, 1, OPEN ;				
+CWLAP: GD-internet, -44, 08:3a:38:cc:2f:d0, 1, OPEN;				
+CWLAP: Redmi K40, -56, ba:fa:07:50:63:f6, 1, WPA2 CCMP;				
+CWLAP: D-Link_DIR-822, -30, 1c:5f:2b:fd:be:60, 1, WPA2 CCMP;				
+CWLAP: iPhone 24 Pro Max Ultr, -48, fa:da:47:72:f0:b3, 2, WPA2 CCMP;				
+CWLAP: TP-LINK_8659, -20, 68:77:24:bd:86:59, 4, WPA2/WPA3 CCMP;				
OK				
Example 2:				
AT+CWLAP= "xiaomi_4a"				
Correct response 2:				
+CWLAP: xiaomi_4a,	+CWLAP: xiaomi_4a, -55, 88:c3:97:0d:c3:70, 1, OPEN			
OK				
NI - 4 If the a second at a second	tal talliana and tallian languages at the community	nanding AD information is displayed		

Note: If the parameter ssid is provided, only the corresponding AP information is displayed.

4.4. AT+CWSTATUS

Table 4-4. Querying WiFi status, STA, SoftAP, or MONITOR

Command	Parameters	Response
Execution command		+CWSTATUS: STA, connected,
AT+CWSTATUS		<ssid>,<channel>,<mac></mac></channel></ssid>

Command	Parameters		Response	
		Or		
		+CWSTATUS:	STA, discon	nected
		Or		
		+CWSTATUS:	MONITOR,	<channel>,</channel>
		<mac></mac>		
		Or		
		+CWSTATUS:	SoftAP,	<ssid>,</ssid>
		<passw ord="">,</passw>	<channel></channel>	
Example:				
AT+CWSTATUS				
Correct response:				
+CWSTATUS: STA, connec	ted, xiaomi_4a, 1, 76:ba:ed:20:22:	a2		

4.5. AT+CWQAP

Table 4-5. Disconnecting from AP

Command	Parameters	Response	
Execution command		Disconnection result	
AT+CWQAP			
Example:			
AT+CWQAP			
Correct response:			
OK			
WIFI_MGMT: disconnect with ap xiaomi_4a			

4.6. AT+CWSAP_CUR

Table 4-6. Starting SoftAP

Command	Parameters	Response
Help command		+CWSAP_CUR: <ssid>,<pw d="">,<chl:1-< td=""></chl:1-<></pw></ssid>
AT+CWSAP_CUR=?		13>, <hidden:0-1></hidden:0-1>
Execution command	<ssid>: String parameter</ssid>	Execution result
AT+CWSAP_CUR= <ssid>, <pw d="">,<chl>,<hidden></hidden></chl></pw></ssid>	<pw d="">: String parameter <chl>: 1, 13</chl></pw>	
, ,	<hidden>:</hidden>	
	0: SSID Broadcast	
	1: Hidden SSID	

AT+CWSAP_CUR="test_ap","12345678",6,0

Correct response:

Command	Parameters	Response
OK		

4.7. AT+CWLIF

Table 4-7. Viewing clients connected to SoftAP

Command	Parameters	Response
Execution command		+CWLIF: [0] <mac1></mac1>
AT+CWLIF		+CWLIF: [1] <mac2></mac2>
Example:		
AT+CWLIF		
Correct response:		
+CWLIF: [0] e0:2b:e9:8a:46:ac		
OK		

4.8. AT+CWAUTOCONN

Table 4-8. Setting whether to automatically connect to the AP after power-on

able 4-6. Setting whether to automatically conflect to the AP after power-on			
Command	Parameters	Response	
Help command		+CWAUTOCONN:(0-1)	
AT+CWAUTOCONN=?			
Query command		+CWAUTOCONN: <enable></enable>	
AT+CWAUTOCONN?			
Execution command	<enable>: 0-1</enable>	Execution result	
AT+CWAUTOCONN= <ena< td=""><td>0: disable auto connect</td><td></td></ena<>	0: disable auto connect		
ble>	1: enable auto connect		
Example:			
AT+CWAUTOCONN=1			
Correct response:			

OK

Additional description:

After +CWAUTOCONN is set to 1, if the AP is successfully connected, the AP information will be saved in FLASH. After restarting, the AP will be automatically connected according to the AP information stored in FLASH.



5. AT TCPIP command set

5.1. AT+PING

Table 5-1. Ping function

Command	Parameters	Response
Help command		+PING: <ip domain="" name="" or=""></ip>
AT+PING=?		
Execution command	<ip>: string, w hich can be an IP</ip>	+ <delay_time></delay_time>
AT+PING= <ip domain="" or=""></ip>	address or domain name	+ <delay_time></delay_time>
Example 1:		
AT+PING="192.168.0.1"		
Correct response 1:		
+80		
+47		
+49		
+55		
+53		
OK		
Example 2 Note: When usin	g the URL, the Internet must be o	onnected; otherwise, it will fail.
AT+PING="w w w .baidu.com"		
Correct response 2:		
+149		
+47		
+51		
+47		
+112		
ОК		

5.2. AT+CIPSTA

Table 5-2. Querying or setting the IP address of the local STA

Command	Parameters	Response
Help command		+CIPSTA: <ip>,<mask>,<gw></gw></mask></ip>
AT+CIPSTA=?		
Query command		+CIPSTA: <ip></ip>
AT+CIPSTA?		+CIPSTA: <mask></mask>
		+CIPSTA: <gw></gw>
Execution command	<ip>: String parameter</ip>	Execution result
AT+CIPSTA= <ip>,<netmas< td=""><td><netmask>: String parameter</netmask></td><td></td></netmas<></ip>	<netmask>: String parameter</netmask>	

Command	Parameters	Response
k>, <gw></gw>	<gw>: String parameter</gw>	
Example 1:		
AT+CIPSTA?		
Correct response 1:		
+CIPSTA: 192.168.185.43		

+CIPSTA: 255.255.255.0 +CIPSTA: 192.168.185.1

OK

Example 2:

AT+CIPSTA="192.168.185.45","255.255.255.0","192.168.185.1"

Correct response 2:

OK

5.3. AT+CIPSTART

Table 5-3. Creating TCP connection or UDP transfer

Command	Parameters	Response
Help command		+CIPSTART: <type:tcp or<="" td=""></type:tcp>
AT+CIPSTART=?		UDP>, <remote ip="">, <remote port="">,[tcp</remote></remote>
		keep alive:0-1]
Execution command	<type>: "TCP", string parameter</type>	Execution result
AT+CIPSTA RT= <type>,<re< td=""><td><remote ip="">: Server IP, string</remote></td><td></td></re<></type>	<remote ip="">: Server IP, string</remote>	
mote ip>, <remote port="">,</remote>	parameter	
[tcp keep alive]	<pre><remote port="">: Server Port,</remote></pre>	
	integer	
	[tcp keep alive]: 0 or 1, integer	
Execution command	<type>: "UDP", string parameter</type>	Execution result
AT+CIPSTA RT= <type>,<re< td=""><td><remote ip="">: Server IP, string</remote></td><td></td></re<></type>	<remote ip="">: Server IP, string</remote>	
mote ip>, <remote< td=""><td>parameter</td><td></td></remote<>	parameter	
port>,[udp local port]	<pre><remote port="">: Server Port,</remote></pre>	
	integer	
	[udp local port]: UDP local port	
	number	

Example 1:

AT+CIPSTA RT="TCP","192.168.0.2",2001,1

Correct response 1:

TCP: create socket 8.

OK

Example 2:



AT+CIPSTART="UDP", "192.168.0.2",5001,0

Correct response 2: UDP: create socket 7.

OK

Example 3: UDP with local port number 8888 specified

AT+CIPSTART="UDP", "192.168.0.2",5001,8888

Correct response 3: UDP: create socket 2.

OK

Note: In this test, the tester needs to run the sokit or other network test tool on the test machine.

5.4. AT+CIPSEND

Table 5-4. Sending data

lable 3-4. Seliding data		
Command	Parameters	Response
Help command		+CIPSEND: <fd:0-4>,<len>,[remote</len></fd:0-4>
AT+CIPSEND=?		ip],[remote port]
Execution command in	<fd>:</fd>	> <input from="" keyboard=""/>
Normal transmission mode	0-4, network connection ID,	SEND OK
AT+CIPSEND= <fd>, <len>,[</len></fd>	integer	
remote ip], [remote port]	<len>:</len>	
	< =2048, length of sent data,	
	integer	
	[remote ip]:	
	Remote IP address, string	
	parameter	
	[remote port]:	
	Remote port, integer	
Execution command in		OK
WiFi passthrough		> <input from="" keyboard=""/>
transmission mode		
AT+CIPSEND		
Evample 1:		

Example 1:

AT+CIPSEND=0,10

Correct response 1:

AT+CIPSEND=7,5

>SEND OK

Example 2:

AT+CIPSEND=1,20,"192.168.0.2",5001

Correct response 2:

AT+CIPSEND=7,5



>SEND OK

Example 3: UART WiFi passthrough transmission when the GD32VW553 works as a TCP client in single connection

Connect to the router.

AT+CWJAP="test_ap","1234567890"

Query the device's IP address, take 192.168.1.27 for example.

AT+CIPSTA?

Connect the PC to the same router which GD32VW553 is connected to. Use a network tool on the PC to create a TCP Server. For Example, the TCP Server on PC is 192.168.1.2, and the port is 5678. Connect the GD32VW553 to the TCP server as a TCP client over TCP.

AT+CIPSTA RT="TCP","192.168.1.2",5678,0

Enable the UART WiFi passthrough mode, passthrough receive is started. AT+CIPMODE=1

Send data by passthrough mode

AT+CIPSEND

OK

>

Stop Sending data. When receiving a packet that contains only +++, the UART WiFi passthrough transmission process will be stopped. Then please wait at least 1 second before sending the next AT command.

+++

Exit the UART WiFi passthrough mode, normal receive is started.

AT+CIPMODE=0

Close TCP connection.

AT+CIPCLOSE

Note:

Enter the WiFi passthrough mode, the GD32VW553 can receive 8129 bytes and send 2920 bytes at most each time. If the data received by GD32VW553 reaches or exceeds 2920 bytes, the data will be immediately sent in chunks of 2910 bytes. Otherwise, it will wait for 20 milliseconds (You can configure this interval using AT+TRANSINTVL command) before being sent. When a single packet containing +++ is received, the GD32VW553 will exit the data sending mode under the WiFi passthrough mode. Please wait at least on second before sending the next AT command. WiFi passthrough mode can only be used for single connection in the WiFi passthrough mode. For UDP WiFi passthrough, the UDP's remote server, remote port and local port must be specified. In the Example 3, the tester needs to run the sokit or other network test tool on the test machine.

5.5. AT+CIPSERVER

Table 5-5. Starting the TCP server

Command	Parameters	Response
Help command		+CIPSERV ER: <mode:0-1>,[port]</mode:0-1>

AT+CIPSERVER=?		
Execution command	<mode>:</mode>	Execution result
AT+CIPSERVER= <mode>,</mode>	0: Close the server	
[port]	1: Create a server	
	[port]:	
	Optional parameters, integer	
Example:		
AT+CIPSERVER=1,3001		
Correct response:		
OK		

5.6. AT+CIPCLOSE

Table 5-6. Closing TCP connection or UDP transfer

Command	Parameters	Response
Help command		+CIPCLOSE: <fd></fd>
AT+CIPCLOSE=?		
Execution command	<fd>: 0-7, netw ork connection</fd>	close <fd></fd>
AT+CIPCLOSE= <fd></fd>	ID, integer	
Example:		
AT+CIPCLOSE=8		
Correct response		
close 8		
OK		

5.7. AT+CIPSTATUS

5: Other connection status.

Table 5-7. Querying network connection information

Command	Parameters	Response
Execution command		STATUS: 5
AT+CIPSTATUS		
Example:		
AT+CIPSTATUS		
Correct response:		
STATUS: 2		
OK		
Additional description: STATUS		
2: STA has been connected to the AP and obtained an IP address. 3: STA has been connected to the AP and created TCP connection or UDP transfer clients. 4: The dhcp process is ongoing.		



5.8. AT+CIFSR

Table 5-8. Querying local IP address information

Command	Parameters	Response
Execution command		+CIFSR:APIP, <ip></ip>
AT+CIFSR		+CIFSR:A PMAC, <mac></mac>
		Or
		+CIFSR: STA IP, <ip></ip>
		+CIFSR:STA MAC, <mac></mac>
Example:		
AT+CIFSR		
Correct response:		
+CIFSR: STA IP,192.168.2.3		
+CIFSR: STA MAC,76: ba:ed:2	20:22:a2	
OK		

5.9. AT+CIPMODE

Table 5-9. Querying or Setting the Transmission Mode

Command	Parameters	Response
Help command		+CIPMODE= <mode:0-1></mode:0-1>
AT+CIPMODE=?		
Query command		Current Transmission Mode
AT+CIPMODE?		+CIPMODE: < mode>
Execution command	<mode>:Transmission Mode</mode>	Execution result
AT+CIPMODE = <mode></mode>	0: normal transmission mode	OK
	1: WiFi passthrough mode	or
		Error

Example:

AT+CIPMODE=1

Correct response:

OK

Note:

WiFi passthrough mode can only be enabled in TCP single connection mode, UDP mode when the remote host, remote port and local port are specified.

The maximum receive length is 2920 Bytes each time in WiFi passthrough mode.



6. Revision history

Table 6-1. Revision history

Revision No.	Description	Date
1.0	Initial release.	Nov.24.2023
	Add new Command:	
	AT+TRANSINTVL and	
1.1	AT+CIPMODE, and extend	Jul.16.2024
	AT+CIPSEND command to support	
	passthrough transmission mode.	



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