

SIM800 Series_IP_Application Note_V1.03





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Contents

| 1 | Description | | |
|----|-------------|---|----|
| | 1.1 Fe | eatures | 6 |
| 2 | AT co | mmands | 7 |
| 3 | Examı | ples | 9 |
| | 3.1. | Bearer Configure | |
| | 3.2. | HTTP GET Method | |
| | 3.3. | HTTP POST Method | |
| | 3.4. | HTTP HEAD Method | 10 |
| | 3.5. | Set Proxy HTTP Server | 11 |
| | 3.6. | Set HTTP Redirection Parameter | |
| | 3.7. | Set HTTP Download Break Point Parameter | 12 |
| | 3.8. | Get HTTP Current Status | |
| | 3.9. | FTP GET Method | |
| | 3.10. | FTP PUT Method | 14 |
| | 3.11. | FTP Time out | 15 |
| | 3.12. | FTP Error | 15 |
| | 3.13. | FTP Operation Error | 16 |
| | 3.14. | FTP READ and WRITE Error | 16 |
| | 3.15. | Set FTP Download Break Point Parameter | 17 |
| | 3.16. | FTP DELE Method | 17 |
| | 3.17. | FTP SIZE Method | 18 |
| | 3.18. | FTP MKD and RMD Method | 18 |
| | 3.19. | FTP LIST Session | 19 |
| | 3.20. | FTP Extend PUT Method | 20 |
| | 3.21. | FTPGETTOFS Method | 21 |
| | 3.22. | FTPPUTFRMFS Method | 21 |
| | 3.23. | FTPEXTGET Method | 22 |
| | 3.24. | FTPFILEPUT Method. | 23 |
| | 3.25. | FTPQUIT Method | 23 |
| Aı | ppendix | <u></u> | 25 |
| 6 | Α. | Related Documents | |
| | B. | Terms and Abbreviations | |
| | | | |



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Scope

This document presents the AT command of HTTP&FTP operation and application examples. This document can apply to SIM800 series modules with HTTP and FTP function.



1 Description

This chapter introduces the IP application features of SIM800 series modules

1.1 Features

- SIM800 series modules support Hyper Text Transfer Protocol application. which
 provides a mode to alternate of HTTP server. The basic application contains GET,
 POST, HEAD methods; it also supports proxy server, redirection, broken transfer
 resuming functions.
- SIM800 series modules support File Transfer Protocol application. which provides a mode to interact with FTP server. The basic application contains GET, PUT methods, it also supports broken transfer resuming function. PUT method supports APPE, STOR and other modes.



2 AT commands

| Command | Description |
|----------------|--|
| AT+HTTPINIT | Initialize HTTP service |
| AT+HTTPTERM | Terminate HTTP service |
| AT+HTTPPARA | Set HTTP parameters value |
| AT+HTTPDATA | Input HTTP data |
| AT+HTTPACTION | Http method action |
| AT+HTTPREAD | Read the HTTP server response |
| AT+HTTPSCONT | Save HTTP application context |
| AT+HTTPSTATUS | Read HTTP status |
| AT+FTPPORT | Set FTP control port |
| AT+FTPMODE | Set active or passive FTP mode |
| AT+FTPTYPE | Set the type of data to be transferred |
| AT+FTPPUTOPT | Set FTP put type |
| AT+FTPCID | Set FTP bearer profile identifier |
| AT+FTPREST | Set resume broken download |
| AT+FTPSERV | Set FTP server address |
| AT+FTPUN | Set FTP user name |
| AT+FTPPW | Set FTP password |
| AT+FTPGETNAME | Set download file name |
| AT+FTPGETPATH | Set download file path |
| AT+FTPPUTNAME | Set upload file name |
| AT+FTPPUTPATH | Set upload file path |
| AT+FTPGET | Download file |
| AT+FTPPUT | Set upload file |
| AT+FTPSCONT | Save FTP application context |
| AT+FTPDELE | Delete specified file in FTP server |
| AT+FTPSIZE | Get the size of specified file in FTP server |
| AT+FTPSTATE | Get the FTP state |
| AT+FTPEXTPUT | Extend upload file |
| AT+FTPMKD | Make directory on the remote machine |
| AT+FTPRMD | Remove directory on the remote machine |
| AT+FTPLIST | List contents of directory on the remote machine |
| AT+FTPGETTOFS | Download file and save in file system |
| AT+FTPPUTFRMFS | Upload file from file system |
| AT+FTPEXTGET | Extend download file |



| AT+FTPFILEPUT | Load file in RAM from file system then upload with FTPPUT |
|---------------|---|
| AT+FTPQUIT | Quit current FTP session |



3 Examples

In the "Grammar" columns of following tables, input of AT commands are in black, module return values are in blue.

3.1. Bearer Configure

| Grammar | Description |
|--------------------------------|----------------------------|
| AT+SAPBR=3,1,"Contype", "GPRS" | Configure bearer profile 1 |
| OK | |
| AT+SAPBR=3,1,"APN","CMNET" | |
| OK | |
| AT+SAPBR=1,1 | To open a GPRS context. |
| OK | |
| AT+SAPBR=2,1 | To query the GPRS context. |
| +SAPBR:1,1,"10.89.193.1" | |
| | |
| OK | |
| AT+SAPBR=0,1 | To close a GPRS context. |
| OK | |

3.2. HTTP GET Method

Download data from HTTP server.

| Grammar | Description |
|---------------------------------|--|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="URL","www.sim.com" | |
| OK | |
| AT+HTTPACTION=0 | GET session start |
| OK | |
| +HTTPACTION: 0,200,1000 | GET successfully |
| AT+HTTPREAD | Read the data of HTTP server \square |
| +HTTPREAD: 1000 | |
| | |
| OK | |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |



3.3. HTTP POST Method

Upload data to HTTP server.

| Grammar | Description |
|---------------------------------|---|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="URL","www.sim.com" | |
| OK | |
| AT+HTTPDATA=100,10000 | POST the data whose size is 100 Bytes and |
| DOWNLOAD | the maximum latency time for inputting is |
| | 10000 ms. It is recommended to set the |
| | latency time long enough to allow |
| | downloading all the data. |
| | It is ready to receive data from UART, and |
| OV | DCD has been set to low. |
| OK | All data has been received over, and DCD is |
| AT A METER A CONTROL A | set to high. |
| AT+HTTPACTION=1 | POST session start |
| OK | DOCTC II |
| +HTTPACTION: 1,200,0 | POST successfully |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |

3.4. HTTP HEAD Method

Get HTTP head information from HTTP server.

| Grammar | Description |
|---------------------------------|---------------------------------|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="URL","www.sim.com" | |
| OK | |
| AT+HTTPACTION=2 | HEAD session start |
| OK | |
| +HTTPACTION: 2,200,0 | HEAD successfully |
| | |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |



3.5. Set Proxy HTTP Server

It provides the method to use proxy HTTP server.

| Grammar | Description |
|----------------------------------|---------------------------------|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="URL","www.sim.com" | |
| OK | |
| AT+HTTPPARA="PROIP","10.0.0.172" | Set proxy server IP address |
| OK | |
| AT+HTTPPARA="PROPORT",80 | Set proxy server port |
| OK | |
| AT+HTTPACTION=0 | GET session start |
| OK | |
| +HTTPACTION: 0,200,1000 | GET successfully |
| AT+HTTPREAD | Read the data of HTTP server. |
| +HTTPREAD: 1000 | Output the data to UART |
| | |
| OK | |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |

3.6. Set HTTP Redirection Parameter

It provides the method to use HTTP redirection function.

| Grammar | Description |
|----------------------------------|---------------------------------|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="REDIR",1 | Set the redirection parameter |
| OK | |
| AT+HTTPPARA="URL","www.sim.com/a | Set the URL |
| bcde" | |
| OK | |
| AT+HTTPACTION=0 | GET session start |
| OK | |
| +HTTPACTION: 0,200,1000 | GET successfully |



| AT+HTTPREAD | Read the response of HTTP server |
|-----------------|----------------------------------|
| +HTTPREAD: 1000 | Output the data to UART |
| | |
| OK | |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |

3.7. Set HTTP Download Break Point Parameter

It provides the method to use HTTP broken download resuming function.

| Grammar | Description |
|--|---|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 OK | Set parameters for HTTP session |
| AT+HTTPPARA="URL","HTTP://www.si m.com/img/sim_logo_jr_1003_38.gif" OK | Set the URL, the size of gif is 16384 bytes |
| AT+HTTPPARA="BREAK",2000 | Set the break point |
| OK | |
| AT+HTTPACTION=0 | GET session start, get data from 2000 to |
| OK | 16384 |
| +HTTPACTION: 0, 200,14384 | GET successfully |
| AT+HTTPREAD | Read the data of HTTP server |
| +HTTPREAD: 14384 | Output the data to UART |
| | |
| OK | |
| AT+HTTPTERM | Terminate HTTP service |
| OK | |

3.8. Get HTTP Current Status

| Grammar | Description |
|----------------------------------|---------------------------------|
| AT+HTTPINIT | Init HTTP service |
| OK | |
| AT+HTTPPARA="CID",1 | Set parameters for HTTP session |
| OK | |
| AT+HTTPPARA="URL","www.baidu.com | Set the URL |
| " | |
| OK | |



| AT+HTTPACTION=0 OK | Get session start |
|--|--|
| AT+HTTPSTATUS? +HTTPSTATUS: GET,1,1440,7915 | The status of getting session is in progress |
| OK +HTTPACTION: 0, 200,9335 | GET successfully |
| AT+HTTPSTATUS? +HTTPSTATUS: GET,0,0,0 OK | The status of getting session is over |
| AT+HTTPACTION=1 OK | POST session start |
| AT+HTTPSTATUS? +HTTPSTATUS: POST,2,1440,608 | The status of posting session is in progress |
| OK +HTTPACTION: 1,200,0 | POST successfully |
| AT+HTTPSTATUS? +HTTPSTATUS: POST,0,0,0 | The status of posting session is over |
| AT+HTTPTERM OK | Terminate HTTP service |

3.9. FTP GET Method

Download data from FTP server

| Grammar | Description |
|-----------------------------|---------------------------------|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="1K.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPGET=1 | Open the FTP get session. |
| OK | |



| +FTPGET: 1,1 | Data are available. |
|-------------------------------------|--|
| AT+FTPGET=2,1024 | Request to read 1024 bytes, but |
| +FTPGET: 2,50 | Only 50 bytes are now available. |
| 01234567890123456789012345678901234 | |
| 567890123456789 | |
| OK | |
| AT+FTPGET=2,1024 | Request to read 1024 bytes again. |
| +FTPGET: 2,0 | No byte is now available, but it is not the |
| | end of session. |
| OK | |
| +FTPGET: 1,1 | If the module receives data but user do not |
| | input "AT+FTPGET:2, <reqlength>" to read</reqlength> |
| | data, "+FTPGE T:1,1" will be shown again |
| | in a certain time. |
| AT+FTPGET=2,1024 | Request to read 1024 bytes. |
| +FTPGET: 2,1024 | 1024 bytes are now available. |
| 01234567890123456789012345678901234 | |
| 56789012345678901234 | |
| OK | |
| +FTPGET:1,0 | Data transfer finished. The connection to |
| | the FTP server is closed. |

3.10. FTP PUT Method

Upload data to FTP server.

| Grammar | Description |
|-----------------------------|---|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPPUTNAME="1K.txt" | |
| OK | |
| AT+FTPPUTPATH="/" | |
| OK | |
| AT+FTPPUT=1 | Open the FTP put session. |
| OK | |
| +FTPPUT: 1,1,1360 | FTP session is ready for uploading. 1360 is |
| | the max length of data which can be sent at |
| | a time. It depends on the network status. |



| AT+FTPPUT=2,100 | Client requests to send 100 bytes. |
|-------------------|--|
| +FTPPUT: 2,100 | Response indicates that user must input 100 |
| | bytes for transferring now. |
| | It is ready to receive data from UART, and |
| | DCD has been set to low. |
| OK | All data has been received over, and DCD is |
| | set to high. |
| +FTPPUT: 1,1,1360 | URC indicates that the FTP session is ready |
| | to transfer more data. |
| AT+FTPPUT=2,0 | No more data will be uploaded, the FTP |
| OK | session will be closed. |
| +FTPPUT: 1,0 | Data transfer is finished. The connection to |
| | the FTP server is closed. |

During FTP session, different failure may occur because of bad network environment or other reasons. Some common failure includes timeout failure and wrong password failure.

3.11. FTP Time out

Time out occurs during FTP session because of different reasons.

| C | |
|---------------|---|
| Grammar | Description |
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| +FTPGET: 1,64 | If the status of the network is poor, it may |
| | be time out. |
| | The connection to the FTP server is closed. |
| | |
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| +FTPGET: 1,1 | Data are available. |
| +FTPGET: 1,1 | If customer does not use "AT+FTPGET:2, |
| | <reqlength>" to read data, "+FTPGE T:1,1"</reqlength> |
| +FTPGET: 1,1 | will be shown again in a certain time. |
| +FTPGET: 1,64 | If the user does not read data for a long |
| | time, the session will time out. The |
| | connection to the FTP server is closed. |

3.12. FTP Error

Error occurs during FTP applications because of wrong parameter setting.

| Grammar | Description |
|---------|-------------|
| Gi ummu | Description |



| AT+FTPPW="3214567" | Set wrong password |
|--|--|
| OK | |
| AT+FTPGET=1 | Open the FTP Get session |
| OK | |
| +FTPGET: 1,72 | FTP session password error. The connection |
| | to the FTP server is closed. |
| Note: Other errors, you can refer to "AT+FTPGET" command in \(\lambda SIM800 \) | |

Note: Other errors, you can refer to "AT+FTPGET" command in \(\(\sigma \)SIM800 Series AT Command Manual \(\sigma \)

3.13. FTP Operation Error

Error occurs during FTP applications because of wrong operating.

| Grammar | Description |
|---------------|--|
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| +FTPGET: 1,64 | The parameter of "get file name" is empty. |
| | It shows ftp operation error. |
| AT+FTPPUT=1 | Open the FTP PUT session. |
| OK | |
| AT+FTPPUT=1 | Open the FTP PUT session again. Show ftp |
| OK | operation error. |
| | |
| +FTPPUT: 1,66 | |

3.14. FTP READ and WRITE Error

Error occurs before FTP applications because of operating in wrong state.

| Grammar | Description |
|-------------------------------------|---|
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| AT+FTPGET=2,1000 | Read data before "+FTPGET:1,1" is shown. |
| ERROR | |
| +FTPGET: 1,1 | Data are available |
| AT+FTPGET=2,1000 | Read data after "+FTPGET: 1,1" is shown. |
| +FTPGET: 2,50 | |
| 01234567890123456789012345678901234 | |
| 567890123456789 | |
| OK | |
| +FTPGET: 1,0 | Data transfer finished. The connection to |
| | the FTP server is closed. |
| AT+FTPGET=2,1000 | Read data after FTP session is stopped. |
| ERROR | |



| AT+FTPPUT=1 | Open the FTP PUT session. |
|-------------------|--|
| OK | |
| AT+FTPPUT=2,1000 | Write data before "+FTPPUT: 1,1,1360" is |
| ERROR | shown. |
| +FTPPUT: 1,1,1360 | FTP session is ready for uploading. |
| AT+FTPPUT=2,100 | Write data after "+FTPPUT: 1,1,1360" is |
| +FTPPUT: 2,100 | shown. |
| | |
| OK | |
| AT+FTPPUT=2,0 | No more data will be uploaded, the FTP |
| OK | session will be closed. |
| AT+FTPPUT=2,100 | Write data after FTP session is stopped. |
| ERROR | |

3.15. Set FTP Download Break Point Parameter

It provides the method to use FTP broken download resuming function.

| Grammar | Description |
|-------------------------------|--|
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| +FTPGET: 1,1 | Data are available. |
| AT+FTPGET=2,1024 | Get data of FTP server. |
| +FTPGET: 2,29 | |
| wodeceshijieguo,zhgeshigeshia | |
| OK | |
| +FTPGET: 1,0 | Data transfer finished. The connection to |
| | the FTP server is closed. |
| AT+FTPREST=20 | Set the broken point. |
| OK | |
| AT+FTPGET=1 | Open the FTP Get session. |
| OK | |
| +FTPGET: 1,1 | Data are available. |
| AT+FTPGET=2,1024 | Get the data begin from the broken point. |
| +FTPGET: 2,9 | |
| shigeshia | |
| OK | |
| +FTPGET: 1,0 | Data transfer is finished. The connection to |
| | the FTP server is closed. |

3.16. FTP DELE Method

Delete the specified file in FTP server.



| Grammar | Description |
|-----------------------------|---|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="1K.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPDELE | Open the FTP DELE session. |
| OK | |
| +FTPDELE: 1,0 | Delete file finished. The connection to the |
| | FTP server is closed. |

3.17. FTP SIZE Method

Get the size of specified file in FTP server.

| Grammar | Description |
|-----------------------------|---|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="1K.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPSIZE | Open the FTP SIZE session. |
| OK | |
| +FTPSIZE: 1,0,1024 | Get the size of file finished. The connection |
| | to the FTP server is closed. |

3.18. FTP MKD and RMD Method

Make and remove directory on the remote machine.

| Grammar | Description |
|-------------|-------------|
| Gi allillai | Description |



| AT+FTPCID=1 | Set parameters for FTP session. |
|-----------------------------|--|
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETPATH="/test" | _ |
| OK | |
| AT+FTPMKD | Open the FTP session. |
| OK | |
| +FTPMKD: 1,0 | The directory "test" is made on the remote |
| | machine |
| AT+FTPRMD | Open the FTP session |
| OK | |
| +FTPRMD: 1,0 | The directory "test" is removed from the |
| | remote machine |

3.19. FTP LIST Session

List contents of remote directory.

| Grammar | Description |
|-----------------------------|---------------------------------|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="1K.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPLIST=1 | Open the FTP session. |
| OK | |
| +FTPLIST: 1,1 | Data are available |



| AT+FTPLIST=2,1024 | Request to read 1024 bytes, but only 126 |
|----------------------------------|---|
| +FTPLIST: 2,126 | bytes are now available |
| total 0 | |
| drw-rw-rw- 1 user group 0 Oct 12 | |
| 14:58. | |
| drw-rw-rw- 1 user group 0 Oct 12 | |
| 14:58 | |
| | |
| OK | |
| +FTPLIST: 1,0 | Data transfer finished. The connection to |
| | the remote machine is closed |

3.20. FTP Extend PUT Method

Extend Upload data to the remote machine.

| Extend Opload data to the remote machine. | |
|---|---|
| Grammar | Description |
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPPUTNAME="1K.txt" | |
| OK | |
| AT+FTPPUTPATH="/" | |
| OK | |
| AT+FTPEXTPUT=1 | Open the FTP session. |
| OK | |
| AT+FTPEXTPUT=2,0,1024,10000 | Client requests to send 1024 bytes. |
| +FTPEXTPUT: 0,1024 | Response indicates that user must input |
| | 1024 bytes for transferring. It is saved in the |
| | module. |
| | It is ready to receive data from UART, and |
| | DCD has been set to low. |
| OK | All data has been received over, and DCD is |
| | set to high. |
| AT+FTPPUT=1 | Open the FTP PUT session. Waiting for the |
| OK | module to upload the data to the remote |
| | machine. |
| +FTPPUT: 1,0 | Data transfer finished. The connection to |
| | the remote machine is closed |



| AT+FTPEXTPUT=0 | Set FTP to normal put method |
|----------------|------------------------------|
| OK | |

3.21. FTPGETTOFS Method

Download file and save in file system.

| Grammar | Description |
|------------------------------|--|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="test.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPGETTOFS=0,"test.txt" | Open the FTP session. |
| OK | |
| AT+FTPGETTOFS? | Query progress of FTP session |
| +FTPGETTOFS: 1,174125,163900 | FTP session running, 174125 bytes data has |
| | been download, 163900 bytes data has been |
| OK | saved in file system. |
| +FTPGETTOFS: 0,174125 | File download succeed. Use file system |
| | commands to read or write file. |

3.22. FTPPUTFRMFS Method

Upload file from file system

| Grammar Desc | ription |
|--------------|---------|
|--------------|---------|



| AT+FTPCID=1 | Set parameters for FTP session. |
|---------------------------------------|---|
| OK | 200 parameters 111 20001011 |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPPUTNAME="test.txt" | |
| OK | |
| AT+FTPPUTPATH="/" | |
| OK | |
| AT+FTPPUTFRMFS="c:\user\ftp\test.txt" | Open the FTP session. |
| OK | |
| AT+FTPPUTFRMFS? | Query progress of FTP session |
| +FTPPUTFRMFS: 1,68160 | FTP session running, 68160 bytes data has |
| | been upload. |
| OK | |
| +FTPPUTFRMFS: 0,174125 | File upload succeed. Total 174125 bytes |
| | data has been upload. |

3.23. FTPEXTGET Method

Extend Download File

| Grammar | Description |
|-----------------------------|---|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="test.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPEXTGET=1 | Open the FTP session. |
| OK | |
| AT+FTPEXTGET? | Query progress of FTP session |
| +FTPEXTGET: 1,64136 | FTP session running, 64136 bytes data has |
| | been download. |
| OK | |



| +FTPEXTGET: 1,0 | File download succeed. |
|---------------------------|--|
| AT+FTPEXTGET=2,"test.txt" | Save download data to "c:\user\ftp\test.txt" |
| +FTPEXTGET: 2,174125 | Save success, 174125 bytes saved |
| | |
| OK | |
| AT+FTPEXTGET=3,0,174125 | Output receive data from position 0, length |
| +FTPEXTGET: 3,174125 | 174125 |
| | Output data |
| OK | Finish output |
| AT+FTPEXTGET=0 | End FTPEXTGET. |
| OK | |

3.24. FTPFILEPUT Method

Load file in RAM from file system then upload with FTPPUT

| Grammar | Description |
|--|---------------------------------|
| AT+FTPCID=1 | Set parameters for FTP session. |
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPPUTNAME="test.txt" | |
| OK | |
| AT+FTPPUTPATH="/" | |
| OK | |
| AT+FTPFILEPUT=1,"c:\user\ftp\test.txt" | Load file to RAM |
| OK | |
| AT+FTPPUT=1 | Start FTP session |
| OK | |
| +FTPPUT: 1,0 | File upload succeed. |
| AT+FTPFILEPUT=0 | End FTPFILEPUT |
| OK | |

3.25. FTPQUIT Method

Quit current FTP session

| Grammar | Description |
|---------|-------------|
|---------|-------------|



| AT+FTPCID=1 | Set parameters for FTP session. |
|-----------------------------|---------------------------------|
| OK | |
| AT+FTPSERV="116.228.221.52" | |
| OK | |
| AT+FTPUN="sim.cs1" | |
| OK | |
| AT+FTPPW="*****" | |
| OK | |
| AT+FTPGETNAME="1K.txt" | |
| OK | |
| AT+FTPGETPATH="/" | |
| OK | |
| AT+FTPGET=1 | Open the FTP session. |
| OK | |
| AT+FTPQUIT | Quit FTP session |
| OK | |
| +FTPGET: 1,86 | Manual quit FTP session |



Appendix

A. Related Documents

| SN | Document name | Remark |
|-----|---------------------------------|--------|
| [1] | SIM800 Series_AT Command Manual | |
| | | |

B. Terms and Abbreviations

| Abbreviation | Description | |
|--------------|------------------------------|--|
| FTP | File Transfer Protocol | |
| HTTP | Hypertext Transfer Protocol | |
| APN | Access Point Name | |
| GPRS | General Packet Radio Service | |
| PDP | Packet Data Protocol | |



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