



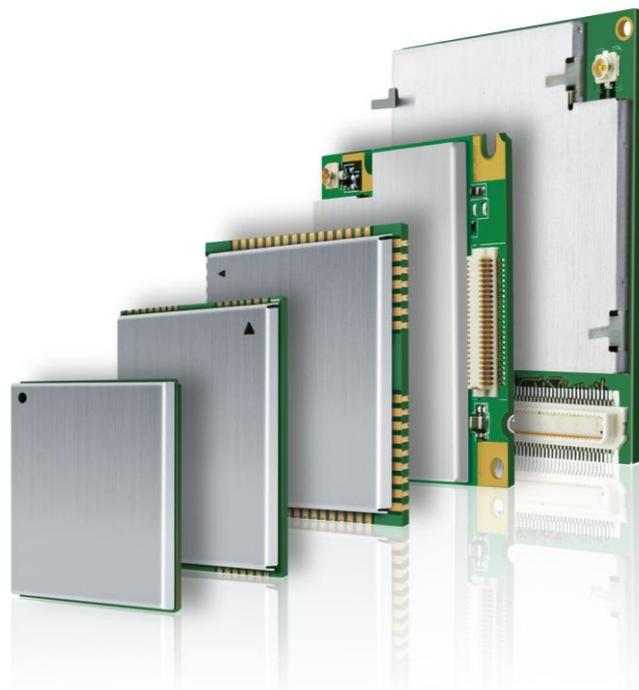
GSM

Quectel Cellular Engine

GSM FTP

AT Commands Manual

GSM_FTP_AT_Commands_Manual_V1.4




```

+QFTPCFG:0 //successfully to set the local position.
AT+QFTPPATH="/" //set the path to download file as "/"
OK

+QFTPPATH:0 //successfully set the path

AT+QFTPGET="sscom.ini",1587 //download the file "sscom.ini" from the FTP
server and save it in RAM with name "dwl.txt".
The second parameter "1587" means a file is
created in RAM, the file size is 1587. If you ignore
this parameter, the default size is 102400. Please
keep this parameter bigger than the size of file you
want to get in FTP server.

OK

+QFTPGET:1587 //successfully download the file "sscom.ini" from
the FTP server. And the size of the data
successfully downloaded is 1587.

```

Note:

It is supported to download a file and save it into a specified file in the Directory "Picture" of SD card with the similar method as the former example in M33. The only difference is to replace "AT+QFTPCFG=4,"/UFS/dwl.txt" with "AT+QFTPCFG=4,"/SD/dwl.txt".

4.4. Operate a file or a file folder on the FTP

4.4.1. Operate a file on the FTP server

```

AT+QFTPRENAME="sscom.ini","test.txt" //rename the file"sscom.ini" to "test.txt"
OK

+QFTPRENAME:0 //successfully rename the file
AT+QFTPSIZE=" test.txt " //query the size of file"test.txt"
OK

+QFTPSIZE:17765 //successfully query the file size, and the file
size is 17765

AT+QFTPDELETE="test.txt" //delete the renamed file "test.txt"
OK

+QFTPDELETE:0 // successfully delete the file

```

4.4.2. Operate a file folder on the FTP server

```

AT+QFTPMKDIR="test"           //establish a new file folder on the FTP
OK

+QFTPMKDIR:0                  //successfully make the new file folder
AT+QFTPRENAME="test","test1"  //rename the file folder "test" to "test1"
OK

+QRENAME:0                    //successfully rename the file folder
AT+QFTPDIR="test1"           //delete the renamed file folder "test1"
OK

+QFTPMKDIR:0                  // successfully remove the file folder

```

Note:

If the file or file folder dose not exist, it will return error:550. If there are problems on the connection, it will return error:-1.

4.5. Resume file at the resuming point

While uploading or downloading file, the process may be interrupted because of disconnection. At this time, it is waste to transfer the data that has been transferred. Quectel Module supports to transfer file at the resuming point if the server supports this function so that it is unnecessary to retransfer the data that has been transferred. And this function makes it possible to split a huge file into several small parts and then upload the file part by part. It is necessary to execute the command "AT+QFTPCFG=3,<resuming point>" before putting or getting remaining data. Please refer to the following examples.

4.5.1. Upload a file to FTP server from the resuming point

```

AT+QFTPPUT="sscom.ini",1587,200 //upload the file "sscom.ini". The total size is
                                3587, and here just upload 1587 bytes for the first
                                time. The remaining data of 2000 bytes can be
                                uploaded later.

OK

CONNECT                          //successfully open data connection to upload file
.....                            //input the data of the file "sscom.ini"
+QFTPPUT:1587                    //successfully upload 1587 bytes of the file
                                "sscom.ini" to the FTP server.

```

```

AT+QFTPCFG=3,1587 //set the resuming point.
OK

+QFTPCFG:0
AT+QFTPPUT="sscom.ini",2000,200 //upload the remaining 2000 bytes of the file
//sscom.ini" to the server.

OK

CONNECT
..... //input the rest data of the file "sscom.ini" from the
//position 1587
+QFTPPUT:2000 //successfully upload the rest 2000 bytes

```

Note:

If the file to put was saved in UFS or SD or RAM, it will put the file from the resuming point. For example: the size of the file to put is 5120 and the resuming point was set as 1587, then it will upload the data from 1587 to 3586 (including it) in the file to put. If the size of the file is less than 3587, it will upload the data from 1587 to the end of the file.

4.5.2. Download a file from FTP server from the resuming point

Similar as uploading, it is supported to download file from the resuming point. For example, if file "sscom.ini" has been downloaded 1587 bytes, while the total size is 3587 bytes. It is supported to download the rest data from the position 1587.

```

AT+QFTPCFG=3,1587 //Set the resuming point.
OK

+QFTPCFG:0
AT+QFTPGET="sscom.ini" //download the rest data of "sscom.ini" from the
//FTP server.

OK

CONNECT
..... //the data of the file "sscom.ini" started from the
//position 1587 outputs from UART
+QFTPGET:2000 //successfully download the rest file of 2000 bytes
//from the FTP server.

```

Note:

If the downloaded file was expected to save in UFS or SD or RAM, it will put the received data in the file to save from the resuming point. For example: the resuming point was set as 1587 and the original size to save the received data is not less than 1587, then the received data will be put into the file to save from 1587. If the size of the file is less than 1587, it will return error

"*+QFTPGET:-12*".

4.6. Get FTP list

Get the contents of directory or file information on the ftp server.

```

AT+QFTPPATH="/" //set the current path as "/"
OK

+QFTPPATH:0 //successfully set the path

AT+QFTPCFG=4,"/COM" //set the local position as COM
OK

+QFTPCFG:0 //successfully to set the local position.

AT+QFTPLIST //list the contents of current directory
OK

CONNECT
-rw-rw-rw- 1 user group 239 Jul 18 15:45 #.dat
.....
.....
drw-rw-rw- 1 user group 0 Jul 16 14:14 tsj

+QFTPLIST: 1

AT+QFTPLIST="ANDY" //list the contents in the directory of "andy"
OK

CONNECT
-rw-rw-rw- 1 user group 0 Mar 17 17:21 1.text
.....
.....
-rw-rw-rw- 1 user group 10 Jun 20 10:18 test.txt

+QFTPLIST: 1

```

Note:

Please make sure the local position is `"/COM/"`, you can use `AT+QFTPCFG=4,"/COM/"` to set it.

4.7. Get FTP file name list

Get the list of file names in the specified directory.

```

AT+QFTPPATH="/" //set the current path as "/"
OK

+QFTPPATH:0 //successfully set the path

AT+QFTPCFG=4,"/COM/" //set the local position as COM
OK

+QFTPCFG:0 //successfully to set the local position.

AT+QFTPNLST // list file names of current directory
OK

CONNECT
Aaa.jpg
.....
.....
Test.txt
+QFTPNLST: 1

AT+QFTPNLST="ANDY" // list the file names in the directory of"andy"
OK

CONNECT
Mytest.txt
.....
.....
Mytest.jpg
+QFTPNLST: 1

```

Note:

Please make sure the local position is "/COM/", you can use **AT+QFTPCFG=4,"/COM/"** to set it.

4.8. Close the FTP service

```

AT+QFTPCLOSE //close the connection with FTP

```

OK

+QFTPCLOSE:0 //successfully close the connection

AT+QIDEACT //de-act the context

DEACT OK //de-act successfully

Generally, if the FTP service is not used for a time of period, the FTP server will indicate the user that the FTP service cannot be used. The module will report "**+QFTPERROR:-421**" for this information. After a moment, the FTP server will close the control connection of the FTP service. And the module will report "**+QFTPERROR:-6**" for this information. It is recommended to execute the command "**AT+QFTPCLOSE**" to close the FTP service after receiving these two report messages from UART.

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