A7600 Series_FTPS_AT Command Manual_V1.00

LTE Module

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Version History

Version	Date	Chapter	What is new
V1.00	2019-05-28		New version

Contents

This document is a reference guide to all the AT commands defined for FTP(S). Through these FTP AT commands, you can download file from FTP(S) server or upload file to FTP(S) server.

1 Introduction

1.1 The process of Using FTP(S) AT Commands

Step 1: Ensure GPRS network is available before performing FTP(S) related operations.

Step 2: Configure the parameter of PDP context by AT+CGDCONT.

Step 3: Activate the PDP context to start FTP(S) service by AT+CFTPSSTART.

Step 4: Login FTP(S) server by AT+CFTPSLOGIN.

Step 5: Download a file and save to module by AT+CFTPSGETFILE.

Step 6: Use AT+CFTPSLOGOUT to logout FTP(S) server while finish FTP(S) operation.

Step 7: Deactivate the PDP context to stop FTP(S) service by AT+CFTPSSTOP.

Note: make sure you login to a FTP(S) sever successfully before any other FTP(S) operations.

2 Description of AT Command

2.1 AT+CFTPSSTART   Start FTP(S) service

AT+CFTPSSTART is used to start FTP(S) service by activating PDP context. You must execute AT+CFTPSSTART before any other FTP(S) related operations.

AT+CFTPSSTART Start FTP(S) service	
Execute Command **AT+CFTPSSTART**	Response **OK** **+CFTPSSTART: <errcode>**
	ERROR

Defined Values

<errcode>	The result of start FTP(S) service, 0 is success, others are failure. Please refer to chapter 4.

2.2 AT+CFTPSSTOP   Stop FTP(S) Service

AT+CFTPSSTOP Stop FTP(S) Service

AT+CFTPSSTOP Stop FTP(S) service	
Execute Command **AT+CFTPSSTOP**	Response **OK** **+CFTPSSTOP: <errcode>**
	ERROR

Defined Values

<errcode>	The result of stop FTP(S) service, 0 is success, others are failure. Please refer to chapter 4.

2.3 AT+CFTPSLOGIN   Login to a FTP(S)server

AT+CFTPSLOGIN is used to login to a FTP(S) server, you can login to a FTP server by set parameter <server_type> to 0, login to an implicit FTPS server by set <server_type> to 3 and login to an explicit FTPS server by set <server_type> to1 or 2. About <sever_type>, more details please refer to defined values <server_type>.

AT+CFTPSLOGIN Login to a FTP(S) server	
Test Command **AT+CFTPSLOGIN=?**	Response **+CFTPSLOGIN:** **"ADDRESS",(1-65535),"USERNAME","PASSWORD"[,(0-3)]**
Write Command **AT+CFTPSLOGIN="<host>",<port>,"<username>","<password>"[<server_type>]**	Response **OK** **+CFTPSLOGIN: <errcode>**
	ERROR

Defined Values

<host>	Host address, string type, maximum length is 256
<port>	The host listening port for FTP(S), the range is from 1 to 65535
<username>	FTP(S) user name, string type, maximum length is 256
<password>	The user password, string type, maximum length is 256
<server_type>	FTP(S)server type,numeric,from0-3,default is 3 0 – FTP server.

	1 – Explicit FTPS server with AUTH SSL.
	2 – Explicit FTPS server with AUTH TLS.
	3 – Implicit FTPS server.
\<errcode\>	The result code of the FTP/FTPS login. 0 is success. Others are failure, please refer to chapter 4.

2.4 AT+CFTPSLOGOUT   Logout a FTP(S) server

AT+CFTPSLOGOUT is used to logout a FTP(S) sever, make sure you login a FTP(S) sever before you execute AT+CFTPSLOGOUT command.

AT+CFTPSLOGOUT Logout a FTP(S) server	
Test Command **AT+CFTPSLOGOUT=?**	Response **OK**
Execute Command **AT+CFTPSLOGOUT**	Response **OK** **+CFTPSLOGOUT: \<errcode\>** **ERROR**

Defined Values

\<errcode\>	The result code of the FTP/FTPS logout. 0 is success. Others are failure, please refer to chapter 4.

2.5 AT+CFTPSMKD   Create a new directory on FTP(S) server

AT+CFTPSMKD is used to create a new directory on a FTP(S) server. Please make sure login to the FTP(S) server successfully before delete a directory.

AT+CFTPSMKD Create a new directory on FTP(S) server	
Test Command **AT+CFTPSMKD=?**	Response **+CFTPSMKD: "DIR"** **OK**
Write Command **AT+CFTPSMKD="\<dir\>"**	Response a)if create directory successfully: **OK** **+CFTPSMKD: 0** b) if failed: **OK**

	+CFTPSMKD: <errcode>
	c)if parameter format or any other errors:
	ERROR

Defined Values

<dir>	The directory to be created, string type, maximum length is 112.
<errcode>	The result of create directory, 0 is success, others are failure, please refer to chapter 4

2.6 AT+CFTPSRMD   Delete a directory on FTP(S) server

AT+CFTPSRMD is used to delete a directory on FTP(S) server, please make sure login to the FTP(S)server successfully before delete a directory.

AT+CFTPSRMD Delete a directory on FTP(S) server	
Test Command **AT+CFTPSRMD=?**	Response **+CFTPSRMD: "DIR"** **OK**
Write Command **AT+CFTPSRMD="<dir>"**	Response a)if delete the directory successfully： **OK** **+CFTPSRMD:0** b)if delete the directory failed: **OK** **+CFTPSRMD:<errcode>** c) if parameter format or any errors: **ERROR**

Defined Values

<dir>	The directory to be removed. String type, maximum length is 112
<errcode>	The result of remove directory, 0 is success, others are failure, please refer to chapter 4

2.7 AT+CFTPSDELE   Delete a file on FTP(S) server

You can use AT+CFTPSDELE delete a file on FTP(S) server, please make sure login to the FTP(S) server successfully before delete a directory.

AT+CFTPSDELE Delete a file on FTP(S) server	
Test Command **AT+CFTPSDELE=?**	Response **+CFTPSDELE: "FILENAME"** **OK**
Write Command **AT+CFTPSDELE="<filename>"**	Response a)if delete file successfully: **OK** **+CFTPSDELE: 0** b)if failed: **OK** **+CFTPSDELE: <errcode>** c)if parameter format or any other errors: **ERROR**

Defined Values

<filename>	The name of the file to be deleted. String type, the maximum length is 112
<errcode>	The result of delete a file, 0 is success, others are failure, please refer to chapter 4.

2.8 AT+CFTPSCWD Change the current directory on FTP(S) server

You can use this command to change the current directory on FTP(S) sever. Make sure you have login to FTP(S) server successfully before AT+CFTPSCWD

AT+CFTPSCWD Change the current directory on FTP(S) server	
Test Command **AT+CFTPSCWD=?**	Response **+CFTPSCWD: "DIR"** **OK**
Write Command	Response

AT+CFTPSCWD="\<dir>"	a) change current directory successfully:
	OK
	+CFTPSCWD: 0
	b) if failed:
	OK
	+CFTPSCWD: \<errcode>
	c) if parameter format or any other error occurs:
	ERROR

Defined Values

\<dir>	The directory to be changed. String type, the maximum length is 112.
\<errcode>	The result of change the current directory, 0 is success, others are failure, please refer to chapter 4

2.9 AT+CFTPSPWD   Get the current directory on FTP(S) server

This command is used to get the current directory on FTPS server. Before AT+CFTPSPWD, please make sure you have login to FTP(S) server successfully

AT+CFTPSPWD Get the current directory on FTP(S) server	
	Response
	a) if get the current directory successfully:
	OK
	+CFTPSPWD: "\<dir>"
Execute Command	b) if failed:
AT+CFTPSPWD	**+CFTPSPWD: \<errcode>**
	ERROR
	c) if parameter format or any other error occurs:
	ERROR

Defined Values

\<dir>	The name of the file to be deleted. String type, the maximum length is 256.
\<errcode>	The result of change current directory, 0 is success, others are failure, please refer to chapter 4

2.10 AT+CFTPSTYPE   Set the transfer type on FTP(S) server

This command is used to set the transfer type on FTP(S) server, please make sure you have login to FTP(S) server before AT+CFTPSTYPE.

AT+CFTPSTYPE Set the transfer type on FTP(S) server	
Test Command **AT+CFTPSTYPE=?**	Response **+CFTPSTYPE: (A,I)** **OK**
Read Command **AT+CFTPSTYPE?**	Response **+CFTPSTYPE: \<type>** **OK**
Write Command **AT+CFTPSTYPE=\<type>**	Response a)if set type successfully: **OK** **+CFTPSTYPE:0** b)if set type failed: **OK** **+CFTPSTYPE:\<errcode>** c)if parameter format or any other errors: **ERROR**

Defined Values

\<type>	The type of transferring: A – ASCII. I – Binary
\<errcode>	The result of set type, 0 is success, others are failure, please refer to chapter 4.

2.11 AT+CFTPSLIST   List the items in the directory on FTP(S) server

This command is used to list the items in the specified directory on FTP(S) server. Module will output the items to serial port when list items successfully. Make sure that you have login to FTP(S) server successfully.

AT+CFTPSLIST List the items in the directory on FTP(S) server	
Write Command **AT+CFTPSLIST="\<dir>"**	Response a)if list items successful: **OK** **+CFTPSLIST: DATA,\<len>** **…** **+CFTPSLIST: 0** b)if failed: **OK**

	+CFTPSLIST: <errcode> d)if parameter format or any other errors: **ERROR**

Defined Values

<dir>	The directory to be listed. String type, the maximum length is 112
<errcode>	The result code of the listing.0 is success, others are failure, please refer to chapter 4.

2.12 AT+CFTPSGETFILE　Download a file from FTP(S) server to module

You can download a file from FTP(S) server to module, by setting parameter <dir>, you can select the directory where to save the downloaded file. Default the downloaded file will be saved to local storage. Make sure that you have login to FTP(S) server successfully before AT+CFTPSGETFILE.

AT+CFTPSGETFILE　Download a file from FTP(S) server to module	
Test Command **AT+CFTPSGETFILE=?**	Response **+CFTPSGETFILE: "FILEPATH"[,(1-2)]** **OK**
Write Command **AT+CFTPSGETFILE="<filepath>"** **[,<dir>]**	Response a) if download file successfully : **OK** **+CFTPSGETFILE: 0** b) if failed: **OK** **+CFTPSGETFILE: <errcode>** c) if parameter format or any other errors: **ERROR**

Defined Values

<filepath>	The remote file path. String type, maximum length is 112.
<dir>	The directory to save the downloaded file. Numeric type, range is 1-2 ，　default is 1(local storage) 1 －　C:/ (local storage) 2 －　D:/(sd card)
<errcode>	The result code of download file from FTP(s) server. 0 is success, others are failure, please refer to chapter 4.

2.13 AT+CFTPSPUTFILE   Upload a file from module to FTP(S) server

You can use this command to upload a file to FTP(S) server from module. By setting parameter <dir> you can select the directory that contains the file to be uploaded. Make sure that you have login to the FTP(S) server successfully before AT+CFTPSPUTFILE.

AT+CFTPSPUTFILE Upload a file from module to FTP(S) server	
Test Command AT+CFTPSPUTFILE=?	Response **+CFTPSPUTFILE: "FILEPATH"[,(1-2),(0-2147483647)]** **OK**
Write Command **AT+CFTPSPUTFILE="<filepath>"[,<dir>[,<rest_size>]]**	Response a)if upload file successfully : **OK** **+CFTPSPUTFILE: 0** b)if failed: **OK** **+CFTPSPUTFILE: <errcode>** c)if parameter format i or any other errors: **ERROR**

Defined Values

<filepath>	The remote file path. String type, maximum length is 112.
<dir>	The directory that contains the uploaded file. Numeric type, range is 1-2, default is 1(local storage) 1 – C:/ (local storage) 2 – D:/(sd card)
<rest_size>	The value for FTP "REST" command which is used for broken transfer when transferring failed last time. Numeric type, the range is from 0 to 2147483647.
<errcode>	The result code of download file from FTP(S) server. 0 is success, others are failure, please refer to chapter 4.

2.14 AT+CFTPSGET   Get a file from FTP(S) server to serial port

You can use this command to get a file from FTP(S) server to serial port.

AT+CFTPSGET Get a file from FTP(S) server to serial port	
Test Command	Response

AT+CFTPSGET=?	+CFTPSGET: "FILEPATH"[,<rest_size>]
	OK
Write Command AT+CFTPSGET="<filepath>"[,<rest_size>]	Response a)if get file successfully : OK +CFTPSGET: DATA,<len> … +CFTPSGET: DATA, <len> … … +CFTPSGET: 0 c)if failed: OK +CFTPSGET: <errcode> d)if parameter format or any other errors: ERROR

Defined Values

<filepath>	The remote file path. String type, maximum length is 112.
<rest_size>	The value for FTP "REST" command which is used for broken transfer when transferring failed last time. Numeric type, the range is from 0 to 2147483647
<errcode>	The result code of download file from FTP(s) server. 0 is success, others are failure, please refer to chapter 4.

2.15 AT+CFTPSPUT   Put a file to FTP(S) server through serial port

You can put a file to FTP(S) server through serial port. Make sure that you have login to FTP(S) server successfully.

AT+CFTPSPUT Put a file to FTP(S) server through serial port	
Test Command AT+CFTPSPUT=?	Response +CFTPSPUT: "FILEPATH"[,<data_len>[,<rest_size>]] OK
Write Command AT+CFTPSPUT="<filepath>"[,<data_len>[,<rest_size>]]	Response a)if upload file through serial port successfully: OK

	+CFTPSPUT: 0
	b)if failed before input data:
	ERROR
	+CFTPSPUT: <errcode>
	c)if failed after input data:
	OK
	+CFTPSPUT: <errcode>
	d)if parameter format or any other errors:
	ERROR

Defined Values

<filepath>	The remote file path. String type, maximum length is 112.
<data_len>	Numeric type, The length of the data to send, the maximum length is 2048.if parameter <data_len> is omitted, Each <Ctrl+Z>character present in the data flow of serial port when downloading FTP data will be coded as <ETX><Ctrl+Z>. Each <ETX> character will be coded as <ETX><ETX>. Single <Ctrl+Z> means end of the FTP data. <ETX> is 0x03, and <Ctrl+Z> is 0x1A.
<rest_size>	The value for FTP "REST" command which is used for broken transfer when transferring failed last time. Numeric type, the range is from 0 to 2147483647.
<errcode>	The result code of upload data to FTP(s) server. 0 is success, others are failure, please refer to chapter 4.

2.16 AT+CFTPSSINGLEIP   Set FTP(S) data socket address type

This command is used to set FTPS server data socket IP address type. For some FTP(S) server, it is needed to set AT+CFTPSSINGLEIP=1.Please make sure to set AT+CFTPSSINGLEIP before AT+CFTPSLOGIN.

AT+CFTPSSINGLEIP Set FTP(S) data socket address type	
Test Command **AT+CFTPSSINGLEIP=?**	Response **+CFTPSSINGLEIP: (0,1)** **OK**
Read Command **AT+CFTPSSINGLEIP?**	Response **+CFTPSSINGLEIP: <singleip>** **OK**

Write Command **AT+CFTPSSINGLEIP=\<singleip\>**	Response a) If parameter format is right and set successfully: **OK** b) If parameter format is not right or any other error occurs: **ERROR**

Defined Values

\<singleip\>	The FTPS data socket IP address type: 0 – decided by PORT response from FTPS server 1 – the same as the control socket.

2.17 AT+CFTPSSIZE   Get the file size on FTP(S) server

You can use this command to get the file size on FTP(S) server. Please make sure you have login to FTP(S) server before AT+CFTPSSIZE.

AT+CFTPSSIZE Get the file size on FTP(S) server	
Test Command **AT+CFTPSSIZE=?**	Response **+CFTPSSIZE: "\<FILEPATH\>"** **OK**

Write Command
AT+CFTPSSIZE="\<filepath\>"
	Response
	  a) if get file size successfully:
	OK
	
	+CFTPSSIZE: \<filesize\>
	
	  b) if failed:
	ERROR
	
	+CFTPSSIZE: \<errcode\>
	
	  c) if any other error occurs:
	ERROR

Defined Values

\<filepath\>	The remote file path on FTP(S) server. String type, max length is 112
\<filesize\>	Numeric type, size of the remote file on FTP(S) server
\<errcode\>	The result code of get file size. Please refer to chapter 4

2.18 AT+CFTPSSLCFG   Set the SSL context id for FTPS session

You can use this command to set the SSL context id for FTPS session.

AT+CFTPSSLCFG Set the SSL context id for FTPS session	
Test Command **AT+ CFTPSSLCFG=?**	Response **+CFTPSSLCFG: (0,1),(0-9)** **OK**

Write Command
AT+CFTPSSLCFG=<session_id>,<ssl_Id>
	Response
	   a) if set successfully:
	OK
	   b) if any other error occurs:
	ERROR

Defined Values

<session_id>	Numeric type, 0 for control session, 1 for data session.
<ssl_Id>	Numeric type, SSL context ID during 0-9.

███ 3 Example

Before all FTP(S) related operations, we should ensure the followings:

a)   ensure GPRS network is available:

AT+CSQ

+CSQ: 23,0

OK

AT+CREG?

+CREG: 0,1

OK

AT+CGREG?

+CGREG: 0,1

OK

b) PDP context Enable:

//Specify the parameter value of the PDP context corresponding to cid
AT+CGSOCKCONT=1,"IP","CMNET"

OK

AT+CGPADDR

+CGPADDR: 1,10.49.14.68 //ensure the first PDP context get a IP address

+CGPADDR: 4,0.0.0.0

OK

Note: usually CSOCKAUTH and CSOCKSETPN parameter are kept default if not care about.

3.1 Access to FTP server

3.1.1 Download a file from FTP server to module/upload a file to FTP server from module

Following commands show us how to login to a FTP server, list the current directory items get the current directory and download a file to module "E:/".

AT+CFTPSSTART //start FTP service

OK

+CFTPSSTART: 0

AT+CFTPSLOGIN="serveraddr",21,"uername","password",0//login to a FTP server

OK

+CFTPSLOGIN: 0

AT+CFTPSLIST="/"   //list all items of directory "/"

OK

+CFTPSLIST: DATA,1024

drw-rw-rw-	1 user	group	0 Aug 23 15:37	.
drw-rw-rw-	1 user	group	0 Aug 23 15:37	..
-rw-rw-rw-	1 user	group	4 Aug 11	2016 008test
-rw-rw-rw-	1 user	group	5505024 Jun 7 17:27	0529-0607.zip
drw-rw-rw-	1 user	group	0 Apr 8 19:15	1
-rw-rw-rw-	1 user	group	1388870 Apr 27	2017 1.isf
-rw-rw-rw-	1 user	group	2 Aug 23	2016 1.txt
-rw-rw-rw-	1 user	group	21 Jan 15	2018 11.txt
-rw-rw-rw-	1 user	group	41 Apr 8 19:32	11111.txt
-rw-rw-rw-	1 user	group	327680 Mar 15	2017 111ww.txt

+CFTPSLIST: 0

AT+CFTPSPWD//get current directory of FTP server

+CFTPSPWD: "/"

OK

AT+CFTPSGETFILE="111ww.txt"
//download a file from FTP server to module directory "C:/"
OK

+CFTPSGETFILE: 0

AT+CFTPSPUTFILE="Code_204_NOK.qmdl"
//upload file from"C:/" to FTP server
OK

+CFTPSPUTFILE: 0

AT+CFTPSLOGOUT //logout FTP server

+CFTPSLOGOUT: 0

OK

AT+CFTPSSTOP //stop FTP service

OK

+CFTPSSTOP: 0

3.1.2 Download a file from FTP server to serial port/upload a file to FTP server from serial port

Following commands show us how to download a file from FTP server to serial port and how to upload a file from serial port to FTP server.

AT+CFTPSSTART

OK

+CFTPSSTART: 0

AT+CFTPSLOGIN="serveraddr",21,"uername","password",0//login to a FTP server

OK

+CFTPSLOGIN: 0

PB DONE

AT+CFTPSLIST="/"

OK

+CFTPSLIST: DATA,1024

drw-rw-rw-	1 user	group	0 Aug 23 15:37 .
drw-rw-rw-	1 user	group	0 Aug 23 15:37 ..
-rw-rw-rw-	1 user	group	4 Aug 11 2016 008test

-rw-rw-rw-   1 user   group   5505024 Jun   7 17:27 0529-0607.zip

drw-rw-rw-   1 user   group   0 Apr   8 19:15 1

-rw-rw-rw-   1 user   group   1388870 Apr 27   2017 1.isf

-rw-rw-rw-   1 user   group   2 Aug 23   2016 1.txt

-rw-rw-rw-   1 user   group   21 Jan 15   2018 11.txt

-rw-rw-rw-   1 user   group   41 Apr   8 19:32 11111.txt

-rw-rw-rw-   1 user   group   327680 Mar 15   2017 111ww.txt

+CFTPSLIST: 0

AT+CFTPSPWD//get current directory of FTP server

+CFTPSPWD: "/"

OK

AT+CFTPSPUT="wwwwputsss"

//upload a file from serial port, please start to input data while ">"received.

>   //this is what you input to serial port.

OK

+CFTPSPUT: 0

AT+CFTPSGET="wwwwputsss"
//download the file sent by AT+CFTPSPUT from FTP server to serial port.
OK

+CFTPSGET: DATA,78

AT+CFTPSLOGOUT//logout FTP server
+CFTPSLOGOUT: 0

OK

3.2 Access to FTPS server

3.2.1 Download a file from FTPS server to module/upload a file to FTPS server from module

Following commands show us how to download a file from FTPS sever to module and how to upload a file from module to FTPS server:

AT+CFTPSSTART
OK

+CFTPSSTART: 0

AT+CFTPSLOGIN="serveraddr",990,"uername","password",3 //login to a FTPS server
OK

+CFTPSLOGIN: 0

AT+CFTPSLIST="/"
OK
+CFTPSLIST: DATA,963

-rw-r--r-- 1 ftp ftp   8 Apr 13   2018 t0411982.txt

-rw-r--r-- 1 ftp ftp   8 Apr 13   2018 t0411988.txt

-rw-r--r-- 1 ftp ftp   88 Apr 11   2018 t0412.txt

-rw-r--r-- 1 ftp ftp   88 Aug 21 11:12 t0821234567.txt

-rw-r--r-- 1 ftp ftp   10 Jun 15   2018 t1.txt

-rw-r--r-- 1 ftp ftp   10 Apr 17   2018 t2.txt

-rw-r--r-- 1 ftp ftp   24 Dec 11   2017 T912.TXT

-rw-r--r-- 1 ftp ftp   10 Mar 13   2018 T91www2.TXT

-rw-r--r-- 1 ftp ftp   10 Mar 13   2018 T91www2s.TXT

-rw-r--r-- 1 ftp ftp   477640 Sep 17 14:43 TESA

-rw-r--r-- 1 ftp ftp   10 Apr 24   2018 tesssst

-rw-r--r-- 1 ftp ftp   10 Jul 27   2018 TEST009.TXT

drwxr-xr-x 1 ftp ftp   0 Aug 21 11:04 test011

-rw-r--r-- 1 ftp ftp   20 Apr 13   2018 test04111.txt

drwxr-xr-x 1 ftp ftp   0 Dec 10   2017 TESTAB4

drwxr-xr-x 1 ftp ftp   0 Dec 10   2017 TESTAB5

-rw-r--r-- 1 ftp ftp   18158 Aug 07   2017 update2.zip

+CFTPSLIST: 0

AT+CFTPSPWD//get current directory of FTP server
+CFTPSPWD: "/"

OK

AT+CFTPSGETFILE="update2.zip"
//download a file from FTPS server to module directory"C:/"
OK

+CFTPSGETFILE: 0

AT+CFTPSPUTFILE="Code_204_NOK.qmdl"
//upload a file from directory "C:/" to FTPS server
OK

+CFTPSPUTFILE: 0

AT+CFTPSLOGOUT// log out FTPS server
+CFTPSLOGOUT: 0

OK

AT+CFTPSSTOP //deactive the PDP context, stop FTP service.
+CFTPSSTOP: 0

OK

3.2.2 Download a file from FTPS server to serial port/upload a file to FTPS server from serial port

Following commands show us how to download a file form FTPS sever to serial port and how to upload a file from serial port to FTPS server:

AT+CFTPSSTART

OK

+CFTPSSTART: 0

AT+CFTPSLOGIN="serveraddr",990,"uername","password",3//login to a FTPS server

OK

+CFTPSLOGIN: 0

AT+CFTPSLIST="/"

OK

+CFTPSLIST: DATA,963

-rw-r--r-- 1 ftp ftp   8 Apr 13   2018 t0411982.txt

-rw-r--r-- 1 ftp ftp   8 Apr 13   2018 t0411988.txt

-rw-r--r-- 1 ftp ftp   88 Apr 11   2018 t0412.txt

-rw-r--r-- 1 ftp ftp   88 Aug 21 11:12 t0821234567.txt

-rw-r--r-- 1 ftp ftp   10 Jun 15   2018 t1.txt

-rw-r--r-- 1 ftp ftp   10 Apr 17   2018 t2.txt

-rw-r--r-- 1 ftp ftp   24 Dec 11   2017 T912.TXT

-rw-r--r-- 1 ftp ftp   10 Mar 13   2018 T91www2.TXT

-rw-r--r-- 1 ftp ftp   10 Mar 13   2018 T91www2s.TXT

-rw-r--r-- 1 ftp ftp   477640 Sep 17 14:43 TESA

-rw-r--r-- 1 ftp ftp   10 Apr 24   2018 tesssst

-rw-r--r-- 1 ftp ftp   10 Jul 27   2018 TEST009.TXT

drwxr-xr-x 1 ftp ftp   0 Aug 21 11:04 test011

-rw-r--r-- 1 ftp ftp   20 Apr 13   2018 test04111.txt

drwxr-xr-x 1 ftp ftp   0 Dec 10   2017 TESTAB4

drwxr-xr-x 1 ftp ftp   0 Dec 10   2017 TESTAB5

-rw-r--r-- 1 ftp ftp   18158 Aug 07   2017 update2.zip

+CFTPSLIST: 0

AT+CFTPSPWD//get current directory of FTP server

+CFTPSPWD: "/"

OK

AT+CFTPSPUT="wwwwpute",10

//upload a file from serial to FTPS server

> //this is what you input to serial port.

OK

+CFTPSPUT: 0

AT+CFTPSGET="wwwwpute",0

//download the file uploaded by AT+CFTPSPUT to serial port

OK

+CFTPSGET: DATA,10

qqqqqqqqqq

+CFTPSGET: 0

AT+CFTPSLOGOUT// log out FTPS server

+CFTPSLOGOUT: 0

OK

AT+CFTPSSTOP

//deactive the PDP context, stop FTP service.

+CFTPSSTOP: 0

4 Summary of FTP Error Code

FTP error code:.

<errorcode>	Meaning
0	Success
1	SSL alert
2	Unknown error
3	Busy
4	Connection closed by server
5	Timeout
6	Transfer failed
7	File not exists or any other memory error
8	Invalid parameter
9	Operation rejected by server
10	Network error
11	State error
12	Failed to parse server name
13	Create socket error
14	Connect socket failed
15	Close socket failed
16	SSL session closed
17	File error, file not exist or other error.
421	Server response connection time out, while received error code 421, you need do AT+CFTPSLOGOUT to logout server then AT+CFTPSLOGIN again for further operations.