

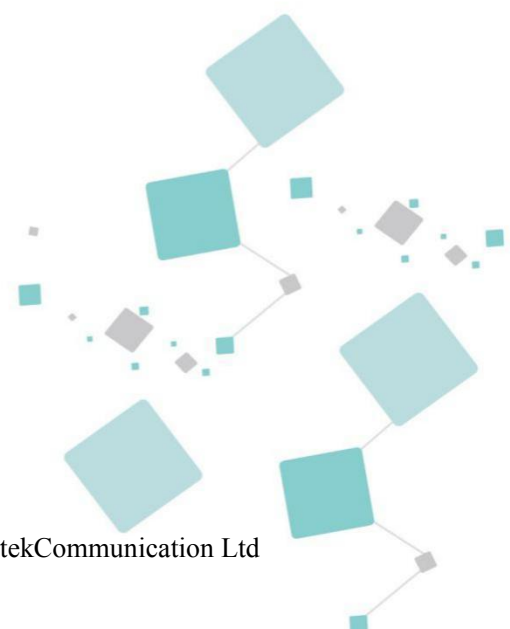
# **L511CN\_AT\_Command\_User\_Guide**

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**LTE Module Series**

**Version:** V1.1

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10	AT+CFTPLIST="/"	OK +CFTPLIST: -rw-rw-rw- 1user group 10 Jan 7 18:47 11.txt -rw-rw-rw- 1 user group 1360 Jan 2 13:31 12.txt ... +CFTPLIST:S UCCESS	
11	AT+CFTPGETFILE="/jiang/test1.txt","/1.txt",0	OK +CFTPGETFILE: SUCCESS, 31	
12	AT+CFTPPUTFILE="/z2.txt","/1.txt",0	OK +CFTPPUTFILE:SUCCESS	
13	AT+CFTPGET="/zs.txt",0	OK  +CFTPGET:D ATA,15 qwertyqwerqe rq	
14	AT+CFTPPUT="/Z1.txt",0,10	+CFTPPUT:BEGIN 1111111111 OK	
15	AT+CFTPDELE="/Z1.txt"	OK	

## 16.5 MQTT Example

Step	Command	Response	Description
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1	AT+CEREG?	+CEREG: 1,1,"19a5","0e88db1d",9 OK	
2	AT+QICSGP=1,1,"cmnbiot","web","password",0	OK	
3	AT+NETOPEN	OK	Active PDP
4	AT+MCONFIG="rdatest"	OK	Configure
5	AT+MIPSTART="test.mosquitto.org",1883,3	OK	Create TCP connection
6	AT+MCONNECT=1,60	OK	Create MQTT connection
7	AT+MSUB="/111",0	OK +MSUB:"/111",5 types,"hello"	//Subscribe MQTT topic
8	AT+MPUB="/111",0,0,"hello"	OK	//Publish MQTT message
9	AT+MPUBEX="/111",0,0,2	>ab +MPUBEX:SUCCESS	Publish MQTT a long message
10	AT+MPUBEX="/111",0,0,46	>{"name":"Sam", "id":"01", "birthday":"20180808"} OK +MPUBEX:SUCCESS	Publish MQTT a JSON format message
11	AT+MUNSUB="/111"	OK	Unsubscribe MQTT topic
12	AT+MDISCONNECT	+MDISCONNECT: SUCCESS OK	Close MQTT connection
13	AT+MIPCLOSE	+MIPCLOSE: SUCCESS OK	Release mqtt resources

## 16.6 File System Example

Step	Command	Response	Description
1	<b>AT+MFSL=0</b>	<b>+MFSL:SUBDIRECTORIES:</b>  <b>+MFSL:FILES:</b> Log_Cfg.nvm COMCfg.csv platform.nvm  OK	
2	<b>AT+MFSMKDIR="test"</b>	OK	
3	<b>AT+MFSL=1</b>	<b>+MFSL:SUBDIRECTORIES:</b> test OK	
4	<b>AT+MFSCD="test"</b>	<b>+MFSCD:/test/</b> OK	
5	<b>AT+MFSCREATE="test.txt"</b>	OK	
6	<b>AT+MFSL=2</b>	<b>+MFSL:FILES:</b> test.txt OK	
7	<b>AT+MFSRENAME="test.txt","test1.txt"</b>	OK	
8	<b>AT+MFSL=2</b>	<b>+MFSL:FILES:</b> test1.txt OK	
9	<b>AT+MFSDDEL="test1.txt"</b>	OK	
10	<b>AT+MFSCD=".."</b>	<b>+MFSCD:/</b> OK	
11	<b>AT+MFSRMDIR="test"</b>	OK	

12	<b>AT+MFSREAD="/COMCfg.csv",0,10</b>	<b>+MFSREAD: DATA: 10, TYPE,VALID  OK</b>	
13	<b>AT+MFSCOPY="/COMCfg.csv","/2.txt"</b>	<b>+MFSCOPY:99.01  +MFSCOPY:100.0  OK</b>	Sync copy file
14	<b>AT+MFSCOPY="/COMCfg.csv","/3.txt",1</b>	<b>OK  +MFSCOPY:99.01  +MFSCOPY:100.0</b>	Async copy file

## 16.7 Fota Example

### 1.HTTP Example

Step	Command	Response	Description
1	<b>AT+QICSGP=1,1,"cmnbiot", "", ""</b>	<b>OK</b>	
2	<b>AT+NETOPEN</b>	<b>OK</b>	
3	<b>AT\$MYMINISYS=1</b>	<b>OK</b>	
4	<b>AT\$MYMINISYS?</b>	<b>\$MYMINISYS: 1, 1</b>	
5	<b>AT+FOTA=0,1,"http://220.167.54.26:30050/file/system_patch.bin_1", "", ""OK</b>	<b>OK</b>	
6	<b>AT+FOTA?</b>	<b>\$MYFOTA:100 OK</b>	
7	<b>Reboot module</b>		
8	<b>AT\$MYMINISYS?</b>	<b>\$MYMINISYS: 1, 2</b>	
9	<b>AT+FOTA=0,1,"http://220.167.54.26:30050/file/system_patch.bin_2", "", ""</b>	<b>OK</b>	

### 2:FTP Example

Step	Command	Response	Description
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1	AT+QICSGP=1,1,"cmnbiot", "", ""	OK	
2	AT+NETOPEN	OK	
3	AT\$MYMINISYS=1	OK	
3	AT+FOTA=1,0,"ftp://220.167.54.26:30050/file/system_patch.bin_1", "", ""OK	OK	
4	AT+FOTA?	\$MYFOTA:100 OK	
5	Reboot module		
6	AT\$MYMINISYS?	\$MYMINISYS: 1, 2	
7	AT+FOTA=1,0,"ftp://220.167.54.26:30050/file/system_patch.bin_2", "", ""	OK	

## 16.8 CERTLOAD Example

Step	Command	Response	Description
1	AT+CERTLOAD=0	>>cert data... OK	//input cert data //Ctrl+z terminate input Or choose file from sscom tools, thecertfile should save in root patch
2	AT+MFSL=2	.... Test.txt ca.crt// cert file OK	ca.crt in the fs
3	AT+CERTLOAD=1	>>cert data... OK	
4	AT+MFSL=2	.... Test.txt ca.crt client.crt OK	

5	AT+CERTLOAD=2	>>cert data... OK	
6	AT+MFSL=2	... Test.txt ca.crt client.crt client.key OK	

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## 17. Error Code

Description	Error Code
CME_PHONE_FAILURE	0 // phone failure
CME_NO_CONNECTION	1 // no connection to phone
CME_PHONE_ADP_LINK_RSVD	2 // phone adaptor link reserved
CME_OPERATION_NOT_ALLOWED	3 // operation not allowed
CME_OPERATION_NOT_SUPPORTED	4 // operation not supported
CME_PH_SIM_PIN_REQUIRED	5 // PH SIM PIN required
CME_PH_FSIM_PIN_REQUIRED	6 // PH-FSIM PIN required
CME_PH_FSIM_PUK_REQUIRED	7 // PH-FSIM PUK required
CME_NO_SIM	10 // SIM not inserted
CME_SIM_PIN_REQUIRED	11 // SIM PIN required
CME_SIM_PUK_REQUIRED	12 // SIM PUK required
CME_SIM_FAILURE	13 // SIM failure
CME_SIM_BUSY	14 // SIM busy
CME_SIM_WRONG	15 // SIM wrong
CME_INCORRECT_PASSWD	16 // incorrect password
CME_SIM_PIN2_REQUIRED	17 //SIM PIN2 required
CME_SIM_PUK2_REQUIRED	18 //SIM PUK2 required
CME_MEMORY_FULL	20 //memory full

CME_INVALID_INDEX	21 //invalid index
CME_NOT_FOUND	22 //not found
CME_MEMORY_FAILURE	23 //memory failure
CME_TEXT_STRING_TOO_LONG	24 //text string too long
CME_INVALID_CHAR_IN_STRING	25 //invalid characters in text string
CME_DAIL_STRING_TOO_LONG	26 //dial string too long
CME_INVALID_CHAR_IN_DIAL_STRING	27 //invalid characters in dial string
CME_NO_NW_SERVICE	30 //no network service
CME_NW_TIMEOUT	31 //network timeout
CME_NW_NOT_ALLOWED	32 //network not allowed emergency calls only
CME_NW_PIN_REQUIRED	40 //network personalization PIN required
CME_NW_PUK_REQUIRED	41 //network personalization PUK required
CME_NW_SUB_PIN_REQUIRED	42 //network subset personalization PIN required
CME_NW_SUB_PUK_REQUIRED	43 //network subset personalization PUK required
CME_SP_PIN_REQUIRED	44 //service provider personalization PIN required
CME_SP_PUK_REQUIRED	45 //service provider personalization PUK required
CME_CP_PIN_REQUIRED	46 //corporate personalization PIN required
CME_CP_PUK_REQUIRED	47 //corporate personalization PUK required
CME_HD_KEY_REQUIRED	48 //hidden key required
CME_INVALID_PARAM	50 //Invalid Param
CME_UNKNOWN	100 //unknown



CME_ILLEGAL_MS	103 //Illegal MS (#3)
CME_ILLEGAL_ME	106 //Illegal ME (#6)
CME_GPRS_NOT_ALLOWED	107 //GPRS services not allowed (#7)
CME_PLMN_NOT_ALLOWED	111 //PLMN not allowed (#11)
CME_LA_NOT_ALLOWED	112 //Location area not allowed (#12)
CME_ROAMING_NOT_ALLOWED	113 //Roaming not allowed in this location area (#13)
CME_SERVICE_OP_NOT_SUPPORTED	132 //service option not supported (#32)
CME_SERVICE_OP_NOT_SUBSCRIBED	133 //requested service option not subscribed (#33)
CME_SERVICE_OP_OUT_OF_ORDER	134 //service option temporarily out of order (#34)
CME_UNSPECIFIED_GPRS_ERR	148 //unspecified GPRS error
CME_PDP_AUTH_FAILURE	149 //PDP authentication failure
CME_INVALID_MOBILE_CLASS	150 //invalid mobile class
CME_COMMAND_TIMEOUT_ERR	151 //AT command timeout
CME_IMS_SRV_FAILURE	170 //IMSSRV failure
CMS_ME_FAILURE	300 //ME failure
CMS_SMS_SERVICE_RESV	301 //SMS service of ME reserved
CMS_OPERATION_NOT_ALLOWED	302 //operation not allowed
CMS_OPERATION_NOT_SUPPORTED	303 //operation not supported
CMS_INVALID_PDU_MODE_PARA	304 //invalid PDU mode parameter
CMS_INVALID_TEXT_MODE_PARA	305 //invalid text mode parameter
CMS_NO_SIM	310 //(U)SIM not inserted
CMS_SIM_PIN_REQUIRED	311 //(U)SIM PIN required

CMS_PH_SIM_PIN_REQUIRED	312 //PH-(U)SIM PIN required
CMS_SIM_FAILURE	313 //(U)SIM failure
CMS_SIM_BUSY	314 //(U)SIM busy
CMS_SIM_WRONG	315 //(U)SIM wrong
CMS_SIM_PUK_REQUIRED	316 //(U)SIM PUK required
CMS_SIM_PIN2_REQUIRED	317 //(U)SIM PIN2 required
CMS_SIM_PUK2_REQUIRED	318 //(U)SIM PUK2 required
CMS_MEMORY_FAILURE	320 //memory failure
CMS_INVALID_MEMORY_INDEX	321 //invalid memory index
CMS_MEMORY_FULL	322 //memory full
CMS_SMSC_ADDR_UNKNOWN	330 //SMSC address unknown
CMS_NO_NW_SERVICE	331 //no network service
CMS_NW_TIMEOUT	332 //network timeout
CMS_NO_CNMA_ACK_EXPECTED	340 //no +CNMA acknowledgement expected
CMS_UNKNOWN_ERROR	500 //unknown error
MIRC_PDP_ALREADY_ACTIVE	902 //pdp already active