

# Migration Guide for UC15 to M10

#### **WCDMA/GSM Module Series**

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# **About the Document**

# **History**

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# 1 Introduction

This document provides the detailed differences between Quectel UMTS/HSPA UC15 module and GSM/GPRS M10 module, which will help you migrate to UC15 from M10 easily and conveniently.





# **2** Differences between UC15 and M10

#### 2.1. URC Commands

Function	M10	UC15
Configure URC Indication Option		AT+QURCCFG="urcport"[, <urcportvalue>]  URC will be outputted from USB AT port by default. You can configure the interface for URC output by "AT+QURCCFG" command.  <urcportvalue> can be "usbat", "usbmodem" or "uart1".</urcportvalue></urcportvalue>
Ring Line Behavior of RING		AT+QCFG="urc/ri/ring"[, <typeri>[,<pulseduration>[,<act iveduration="">[,<inactiveduration>[,<ringnodisturbing>]]]]</ringnodisturbing></inactiveduration></act></pulseduration></typeri>
Ring Line Behavior of Incoming SMS		AT+QCFG="urc/ri/smsincoming"[, <typeri>[,<pulsedurat ion="">]]</pulsedurat></typeri>
Ring Line Behavior of Other URCs	AT+QINDRI= <status></status>	AT+QCFG="urc/ri/other"[, <typeri>[,<pulseduration>]]</pulseduration></typeri>
URC Indication Configuration		AT+QINDCFG= <urctype>[,<enable>[,<savetonvram>]]</savetonvram></enable></urctype>



## 2.2. URC Message Commands

#### 2.2.1. Power on/off

Function	M10	UC15
Main Switch of All URCs is on by default	1	/ Condition: AT+QINDCFG="all",1
Successful ME Initialization	RDY	RDY
Enable All Functions of ME	+CFUN: 1	+CFUN: 1
SIM Card Pin State	+CPIN: <state></state>	+CPIN: <state></state>
Use SIM Card	I	+QUSIM: 0
Use USIM Card		+QUSIM: 1
Finished SMS Initialization		+QIND: SMS DONE
Finished Phonebook Initialization	Call Ready	+QIND: PB DONE
Module Power Down	NORMAL POWER DOWN Condition: AT+QPOWD=1	POWERED DOWN Condition: AT+QPOWD



#### 2.2.2. Network

Function	M10	UC15
Indication of Error Rate Change on Signal Strength and Channel Bit	+CSQN: <rssi>,<ber> Condition: AT+QEXTUNSOL="SQ",1</ber></rssi>	+QIND: "csq", <rssi>,<ber> Condition: AT+QINDCFG="csq",1</ber></rssi>
Indicate Registration Status of ME	+CREG: <stat> Condition: AT+CREG=1</stat>	+CREG: <stat> Condition: AT+CREG=1</stat>
Show Whether the Network Has Currently Indicated the Registration of ME. Location Area Code will be reported when Serving Cell is Changed	+CREG: <n>,<stat>[,<lac>,<ci>] Condition: AT+CREG=2</ci></lac></stat></n>	+CREG: <n>,<stat>[,<lac>,<ci>[,<act>]] Condition: AT+CREG=2</act></ci></lac></stat></n>
Indicate Network Registration	+CGREG: <stat></stat>	+CGREG: <stat></stat>
Status of the ME	Condition: AT+CGREG=1	Condition: AT+CGREG=1
Indicate Network Registration and Location Information of ME	+CGREG: <n>,<stat>[,<lac>,<ci>] Condition: AT+CGREG=2</ci></lac></stat></n>	+CGREG: <n>,<stat>[,<lac>,<ci>[,<act>]] Condition: AT+CGREG=2</act></ci></lac></stat></n>
Time Zone Reporting	+CTZV: <tz> Condition: AT+CTZR=1</tz>	+CTZV: <tz> Condition: AT+CTZR=1</tz>
Extended Time Zone Reporting	+CTZE: <tz>,<dst>,<time> Condition: AT+CTZR=2</time></dst></tz>	+CTZE: <tz>,<dst>,<time> Condition: AT+CTZR=2</time></dst></tz>



#### 2.2.3. SMS

Function	M10	UC15
Receive New Message and	+CMTI: <mem>,<index></index></mem>	+CMTI: <mem>,<index></index></mem>
Save to Memory	Condition: See AT+CNMI	Condition: See AT+CNMI
Receive New Short Message and Output Directly to TE (PDU Mode)	+CMT: [ <alpha>],<length><cr><lf><pdu> Condition: See AT+CNMI</pdu></lf></cr></length></alpha>	+CMT: [ <alpha>],<length><cr><lf><pdu> Condition: See AT+CNMI</pdu></lf></cr></length></alpha>
Receive New Short Message	+CMT:	+CMT:
and Output Directly to TE (Text	<oa>,[<alpha>],<scts>[,<tooa>,<fo>,<pid>,<dcs>,<sca>,</sca></dcs></pid></fo></tooa></scts></alpha></oa>	<oa>,[<alpha>],<scts>[,<tooa>,<fo>,<pid>,<dcs>,<sca>,</sca></dcs></pid></fo></tooa></scts></alpha></oa>
Mode)	<tosca>,<length>]<cr><lf><data></data></lf></cr></length></tosca>	<tosca>,<length>]<cr><lf><data></data></lf></cr></length></tosca>
Wiode)	Condition: See AT+CNMI	Condition: See AT+CNMI
Receive New CBM and Output	+CBM: <length><cr></cr></length>	+CBM: <length><cr></cr></length>
Directly (PDU Mode)	Condition: See AT+CNMI	Condition: See AT+CNMI
Receive New CBM and Output	+CBM:	+CBM:
Directly to TE (Text Mode)	<sn>,<mid>,<dcs>,<page>,<pages>,<cr>,<lf><data></data></lf></cr></pages></page></dcs></mid></sn>	<sn>,<mid>,<dcs>,<page>,<pages>,<cr>,<lf><data></data></lf></cr></pages></page></dcs></mid></sn>
Directly to TE (Text Wode)	Condition: See AT+CNMI	Condition: See AT+CNMI
Receive New CDS and Output	+CDS: <length><cr><lf><pdu></pdu></lf></cr></length>	+CDS: <length><cr><lf><pdu></pdu></lf></cr></length>
Directly (PDU Mode)	Condition: See AT+CNMI	Condition: See AT+CNMI
Receive New CDS and Output	+CDS: <fo>,<mr>,[<ra>],[<tora>],<scts>,<dt>,<st></st></dt></scts></tora></ra></mr></fo>	+CDS: <fo>,<mr>,[<ra>],[<tora>],<scts>,<dt>,<st></st></dt></scts></tora></ra></mr></fo>
Directly to TE (Text Mode)	Condition: See AT+CNMI	Condition: See AT+CNMI
Indication of CMC Ctorons Full	+TSMSINFO: 322	+QIND: "smsfull", <storage></storage>
Indication of SMS Storage Full	Condition: AT+QEXTUNSOL="SM",1	Condition: AT+QINDCFG="smsfull",1
Indication of Incoming Massacca		+CMTI,+CMT,+CDS,+CDSI,+CBM,+CBMI
Indication of Incoming Message		Condition: AT+QINDCFG="smsincoming",1



#### 2.2.4. Call

Function	M10	UC15
"RING" Indication	RING Condition: None	RING Condition: AT+QINDCFG="ring",1
The Presentation of the COL (connected line) at the TE for a Mobile Originated Call	+COLP: <number>,<type>[,<subaddr>,<satype>[CLI validity]], Condition: AT+COLP=1</satype></subaddr></type></number>	+COLP: <number>,<type>[,<subaddr>,<satype>[,<alpha>]] Condition: AT+COLP=1</alpha></satype></subaddr></type></number>
Mobile Terminating Call Indication	+CLIP: <number>,<type>,"",,<alphaid>,<cli validity=""> Condition: AT+CLIP=1</cli></alphaid></type></number>	+CLIP: <number>,<type>,"",,<alphald>,<cli validity=""> Condition: AT+CLIP=1</cli></alphald></type></number>
An Incoming Call is Indicated to the TE with Unsolicited Result Code Instead of the Normal RING	+CRING: <type> Condition: AT+CRC=1</type>	+CRING: <type> Condition: AT+CRC=1</type>
Call Waiting Indication	+CCWA: <number>,<type>,<class>[,<alpha>] Condition: AT+CCWA=1,1</alpha></class></type></number>	+CCWA: <number>,<type>,<class>[,<alpha>] Condition: AT+CCWA=1,1</alpha></class></type></number>
Show the +CSSI Intermediate Result Code Presentation Status to the TE	+CSSI: <code1>[,<index>] Condition: AT+CSSN=1</index></code1>	+CSSI: <code1> Condition: AT+CSSN=1</code1>
Show the +CSSU Unsolicited Result Code Presentation Status to the TE	+CSSU: <code2> Condition: AT+CSSN=<n>,1</n></code2>	+CSSU: <code2> Condition: AT+CSSN=<n>,1</n></code2>
USSD Response from the Network, or a Network Initiated Operation	+CUSD: <status>[,<rspstr>,[<dcs>]] Condition: AT+CUSD=1</dcs></rspstr></status>	+CUSD: <status>[,<rspstr>,[<dcs>]] Condition: AT+CUSD=1</dcs></rspstr></status>



	+QGURC: <event></event>	+QIND:
Indication of Change on Voice	Condition: AT+QEXTUNSOL="UR",1	"ccinfo", <idx>,<dir>,<stat>,<mode>,<mpty>[,<number>,</number></mpty></mode></stat></dir></idx>
Call State		<type>,[<alpha>]]</alpha></type>
		Condition: AT+QINDCFG="ccinfo",1

#### 2.2.5. Hardware

Function	M10	UC15
Indicate the Lowest	,	+QIND: "temp",-2
Temperature		Condition: AT+QCFG="temp",-2, <tempvalue>,1</tempvalue>
Indicate Law Tomporature		+QIND: "temp",-1
Indicate Low Temperature	1	Condition:
Warning		AT+QCFG="temp",-1, <tempvalue>,1</tempvalue>
Indicate High Temperature		+QIND: "temp",1
Warning		Condition: AT+QCFG="temp",1, <tempvalue>,1</tempvalue>
Indicate the Highest		+QIND: "temp",2
Temperature		Condition: AT+QCFG="temp",2, <tempvalue>,1</tempvalue>
The Temperature Comes Back		+QIND: "temp",0
to Normal Temperature Range		Condition: None
Indicate the Lewest Voltage	UNDER_VOLTAGE POWER DOWN	+QIND: "vbatt",-2
Indicate the Lowest Voltage	Condition: None	Condition: AT+QCFG="vbatt",-2, <vbattvalue>,1</vbattvalue>
Indicate Low Voltage Warning	UNDER_VOLTAGE WARNING	+QIND: "vbatt",-1
Indicate Low Voltage Warning	Condition: None	Condition: AT+QCFG="vbatt",-1, <vbattvalue>,1</vbattvalue>
Indicate High Voltage Memine	OVER_VOLTAGE POWER DOWN	+QIND: "vbatt",1
Indicate High Voltage Warning	Condition: None	Condition: AT+QCFG="vbatt",1, <vbattvalue>,1</vbattvalue>
Indicate the Highest Voltage	OVER_VOLTAGE WARNING	+QIND: "vbatt",2



	Condition: None	Condition: AT+QCFG="vbatt",2, <vbattvalue>,1</vbattvalue>
The Voltage Comes Back to		+QIND: "vbatt",0
Normal Voltage Range		Condition: AT+QCFG="vbatt",0, <vbattvalue>,1</vbattvalue>

#### 2.2.6. SIM Card

Function	M10	UC15
Indicate SIM Card is Inserted or	+QSIMSTAT: 1, <insertedstatus></insertedstatus>	+QSIMSTAT: 1, <insertedstatus></insertedstatus>
Removed	Condition: AT+QSIMSTAT=1	Condition: AT+QSIMSTAT=1

#### 2.3. Audio Commands

Function	M10	UC15
Analog Sound	Support	Support
PCM Interface	Support	Support
1 - 101 1/-11	AT+CLVL= <level></level>	AT+CLVL= <volume></volume>
Loud Speaker Volume Level	<level> range: 0-100</level>	<volume> range: 0-7</volume>
Mute Control	AT+CMUT= <on></on>	AT+CMUT= <on></on>
Set Audio Mode	1	AT+QAUDMOD= <mode></mode>
Digital Audio Interface Configure	1	AT+QDAI= <io>,<mode>,<fsync>,<clock></clock></fsync></mode></io>



PCM CLK Signal Configuration	1	1
Mute the Ring Tone	AT+CALM= <on></on>	AT+CALM= <on></on>
Set Ring Tone Value	AT+CRSL= <level></level>	AT+CRSL= <volume></volume>
Set King Tone Value	<level> range: 0-100</level>	<volume> range: 0-7</volume>
Set Audio Path	AT+QAUDCH=[ <n>]</n>	AT+QAUDPATH= <path></path>
0.44 0:1 7 0:	AT+QSIDET= <gainlevel></gainlevel>	AT+QSIDET= <st_gain></st_gain>
Set the Side Tone Gain	<gainlevel> range: 0-255</gainlevel>	<st_gain> range: 0-65535</st_gain>
	AT+QECHO=?	AT+QEEC=?
	+QECHO: control word (0-65535),nlp (0-65535),	+QEEC: (0-8),(0-48),(0-65535)
Set Echo Suppression	suppression value (0-65535),nr (0-65535), channel (0-2)	
		ОК
	ОК	
Change the Microphone Gain	AT+QMIC= <channel>,<gainlevel></gainlevel></channel>	AT+OMIC= <mioggin1> <mioggin2> <mioggin2></mioggin2></mioggin2></mioggin1>
Level	AITWING-CHAINEI, Sanievel	AT+QMIC= <micgain1>,<micgain2>,<micgain3></micgain3></micgain2></micgain1>

#### 2.4. HW Commands

Function	M10	UC15
	AT+QPOWD= <n></n>	AT+QPOWD
Power Off	Normal power off (Send out URC "NORMAL POWER	The command AT+QPOWD is used to shut down the
	DOWN")	module. The UE will return OK immediately when the
		command is executed. Then the UE deactivates the
		network. After deactivating completely, UE outputs message
		"POWERED DOWN" and sets the STATE pin as low to enter



		into the shutdown state. The maximum time for unregistering network is 60 seconds. It is not allowed to turn off the power if the module STATE pin is not set as low or the URC "POWERED DOWN" is not output, in order to avoid data loss.
Clock	AT+CCLK= <time></time>	AT+CCLK= <time></time>
Battery Charge	AT+CBC	AT+CBC
Read ADC	AT+QADC? Directly read ADC.	AT+QADC= <port> <port> Channel number of the ADC. 0 ADC channel 0 1 ADC channel 1</port></port>
Net LED Configuration	AT+QLEDMODE= <ledmode> <ledmode> 0 Network LED flashes rapidly when a call is ringing.  1 No effect on the Network LED when a call is ringing.  2 No effect on the Network LED when a call is ringing. RI will not change until the ringing ends.</ledmode></ledmode>	1
Configure Whether or not to Enter into Sleep Mode	AT+QSCLK= <n></n>	AT+QSCLK= <n></n>
Automatically Reset		AT+QRST= <mode>[,<delay>]</delay></mode>
Set Alarm	AT+QALARM= <state>,<time>,<repeat>,<power></power></repeat></time></state>	1
Set Critical Temperature Operating Mode or Query Temperature	AT+QTEMP= <mode> <mode> 0 Disable query temperature  1 Enable query temperature</mode></mode>	AT+QCFG="temp"[, <temptype>,<tempvalue>[,<tempon off="">]] Only support temperature detection, not support to query</tempon></tempvalue></temptype>



	2	Reserved	temperature.
--	---	----------	--------------

### 2.5. Network Light Commands

#### 2.5.1. LED\_STATUS

Function	M10	UC15
Occasion and National	Light-on: 64ms	Light-on: 200ms
Searching or No Network	Light-off: 800ms	Light-off: 1.8s
Dealest Transferring	Light-on: 64ms	Light-on: 125ms
Packet Transferring	Light-off: 200ms	Light-off: 125ms
Calling (Voice&CSD Call)	Light-on: 64ms	Lighton
	Light-off: 200ms	Light-on
Idle Status	Light-on: 64ms	Light-on: 1.8s
	Light-off: 200ms	Light-off: 200ms
Sleep Status	Light on 64mg	AT+QCFG="SLEEP/NETLIGHT", <n></n>
	Light off: 800mg	<n>=1: Light-on</n>
	Light-off: 800ms	<n>=0: Light-off (default)</n>

#### **NOTE**

The duration time of Light-on (high level) and Light-off (low level) mentioned above needs to be detected by oscilloscope.



#### 2.6. SIM Commands

Function	M10	UC15	
Facility Lock	AT+CLCK= <fac>,<mode>,<passwd>[,<class>]</class></passwd></mode></fac>	AT+CLCK= <fac>,<mode>,[<passwd>[,<class>]] <fac> does not support "PS" Support PF/PN/PU/PP/PC lock, the initial password is 12341234.</fac></class></passwd></mode></fac>	
Enter PIN	AT+CPIN= <pin>[,<new pin="">]</new></pin>	AT+CPIN= <pin>[,<newpin>]</newpin></pin>	
Change Password	AT+CPWD= <fac>,<oldpwd>,<newpwd></newpwd></oldpwd></fac>	AT+CPWD= <fac>,<oldpwd>,<newpwd> <fac> supports "PS"; The password of PF/PN/PU/PP/PC lock cannot be modified.</fac></newpwd></oldpwd></fac>	
Generic SIM Access	AT+CSIM= <operation>,<file_index>,<offset>,<record_id>,<length>,<data></data></length></record_id></offset></file_index></operation>	AT+CSIM= <length>,<command/></length>	
Restricted SIM Access	AT+CRSM= <command/> [, <fileid>[,<p1>,<p2>,<p3>[,<dat a="">]]]</dat></p3></p2></p1></fileid>	AT+CRSM= <command/> [, <fileid>[,<p1>,<p2>,<p3>[,<dat a="">][,<pathid>]]]</pathid></dat></p3></p2></p1></fileid>	
Show ICCID	AT+QCCID	AT+QCCID	
Query Status of SIM Card Initialization	AT+QINISTAT <state> 0 No initialization 1 Ready to execute AT command 2 Phonebook has finished initialization 3 SMS has finished initialization</state>	AT+QINISTAT <status> Status of SIM card initialization. Actual value is the sum of several of the following four kinds (e.g. 7=1+2+4 means CPIN READY&amp;SMS DONE&amp;PHB DONE).  0 Initial state 1 CPIN READY. Operation like lock/unlock PIN is allowed 2 SMS initialization completed 4 Phonebook initialization completed</status>	



Query/Unlock SIM PIN2/PUK2	1	AT+QPIN2= <pin>[,<newpin>]</newpin></pin>
Display PIN Remainder Counter	AT+QTRPIN +QTRPIN: <chv1>,<chv2>,<puk1>,<puk2></puk2></puk1></chv2></chv1>	AT+QPINC? +QPINC: "SC", <pincounter>,<pukcounter> +QPINC: "P2",<pincounter>,<pukcounter></pukcounter></pincounter></pukcounter></pincounter>
SIM Card Detection	AT+QSIMDET= <mode>[,<active>]</active></mode>	AT+QSIMDET= <enable>,<insertlevel></insertlevel></enable>
SIM Inserted Status Report	AT+QSIMSTAT= <n></n>	AT+QSIMSTAT= <enable></enable>
Get Service Provider Name from SIM	AT+QSPN?	1
Set Extended Functionality of SIM Card		AT+QFUN= <op> <op> Operation 5 Perform a power-down to the SIM card 6 Perform a power-up to the SIM card</op></op>

#### 2.7. SMS Commands

Function	M10	UC15
Select TE Character Set	AT+CSCS= <chset></chset>	AT+CSCS= <chset></chset>
	Support: GSM, UCS2, HEX, IRA, PCCP437, 8859_1.	Support: GSM, UCS2, IRA
	When SMS is in text mode, in default settings	UC15 is different from M10 in the conversation of several
	(AT+CSCS="GSM" and AT+QSMSCODE=1), character '@'	special characters when AT+CSCS="GSM".
	is "0x40" in hex format outputting and character '_'	For example: When SMS is in text mode, in default settings
	(underline) is "0x11" in hex format outputting.	(AT+CSCS="GSM"), character '@' is "0x00" in hex format



		outputting and character '_' (underline) is "0x11" in hex format outputting.  Please refer to Quectel_UC15_AT_Commands_Manual for details.
Query the Amount of Unread Message(s)	1	AT+QCFG="sms/unread"
Select Message Service	AT+CSMS= <service> <service> only supports 0.</service></service>	AT+CSMS= <service> <service> supports 0 and 1.</service></service>
Message Format	AT+CMGF[= <mode>]</mode>	AT+CMGF[= <mode>]</mode>
Service Center Address	AT+CSCA= <sca>[,<tosca>]</tosca></sca>	AT+CSCA= <sca>[,<tosca>]</tosca></sca>
Preferred Message Storage	AT+CPMS= <mem1>[,<mem2>[,<mem3>]] Support "SM","ME","MT".</mem3></mem2></mem1>	AT+CPMS= <mem1>[,<mem2>[,<mem3>]] Support "SM","ME","MT","SR".</mem3></mem2></mem1>
Delete Message	AT+CMGD= <index>[,<delflag>]</delflag></index>	AT+CMGD= <index>[,<delflag>]</delflag></index>
Delete All SMS	AT+QMGDA= <type></type>	AT+QMGDA= <type></type>
List Messages	AT+CMGL= <stat>[,<mode>] When <mode> is 1, do not change the status of the specified SMS record.</mode></mode></stat>	AT+CMGL= <stat> Don't support <mode> parameters</mode></stat>
Read Message	AT+CMGR= <index>[,<mode>] When <mode> is 1, do not change the status of the specified SMS record.</mode></mode></index>	AT+CMGR= <index> Don't support <mode>.</mode></index>
Send Message	If text mode (+CMGF=1):  AT+CMGS= <da>[,<toda>]  If PDU mode (+CMGF=0):  AT+CMGS=<length><cr></cr></length></toda></da>	If text mode (+CMGF=1):  AT+CMGS= <da>[,<toda>]  If PDU mode (+CMGF=0):  AT+CMGS=<length><cr></cr></length></toda></da>
More Messages to Send	1	AT+CMMS= <n></n>



Write Message to Memory	If text mode (+CMGF=1):  AT+CMGW= <oa da="">[,<tooa toda="">[,<stat>]]  If PDU mode (+CMGF=0):  AT+CMGW=<length>[,<stat>]<cr></cr></stat></length></stat></tooa></oa>	If text mode (+CMGF=1):  AT+CMGW= <oa da="">[,<tooa toda="">[,<stat>]]  If PDU mode (+CMGF=0):  AT+CMGW=<length>[,<stat>]<cr></cr></stat></length></stat></tooa></oa>
Send Message from Storage	AT+CMSS= <index>[,<da>[,<toda>]]</toda></da></index>	AT+CMSS= <index>[,<da>[,<toda>]]</toda></da></index>
Send SMS Command	If text mode (+CMGF=1):  AT+CMGC= <fo>[,<ct><pid>,<mn>,<da>,<toda>]<cr> If PDU mode(+CMGF=0):  AT+CMGC=<length><cr></cr></length></cr></toda></da></mn></pid></ct></fo>	
SMS Event Reporting Configuration	AT+CNMI[= <mode>[,<mt>[,<ds>[,<dfr>]]]]]] <mode>: 0,1,2,3, <mt>: 0,1,2,3, <bm>: 0,2,3, <ds>: 0,1, <bfr>: 0</bfr></ds></bm></mt></mode></dfr></ds></mt></mode>	AT+CNMI[= <mode>[,<mt>[,<bm>[,<ds>[,<bfr>]]]]]] <mode>: 0,1,2, <mt>: 0,1,2,3, <bm>: 0,2, <ds>: 0,1,2, <bfr>: 0,1 According to 3GPP TS 27005: "It is possible that ME/TA result code buffer is in volatile memory. In this case, messages may get lost if the power of ME/TA is switched off before codes have been sent to TE. Thus, it is not recommended to use direct message routing (<mt>=2 or 3, <bm>=2 or 3, or <ds>=1) with <mode> value 0 or 2." So UC15 does not support the combination of configuration above. For example: AT+CNMA=2,2 AT+CNMA=0,2 AT+CNMA=2,,,1</mode></ds></bm></mt></bfr></ds></bm></mt></mode></bfr></ds></bm></mt></mode>



		AT+CNMA=0,,,1
Restore SMS Settings	AT+CRES=[ <profile>]</profile>	1
Save SMS Settings	AT+CSAS=[ <profile>]</profile>	1
Select Cell Broadcast Message Types	AT+CSCB= <mode>[,mids&gt;[,<dcss>]]</dcss></mode>	AT+CSCB= <mode>[,mids&gt;[,<dcss>]]</dcss></mode>
Show SMS Text Mode Parameters	AT+CSDH[= <show>]</show>	AT+CSDH[= <show>]</show>
Set SMS Text Mode Parameters	AT+CSMP=[ <fo>[<vp>[,pid&gt;[,<dcs>]]]]</dcs></vp></fo>	AT+CSMP=[ <fo>[,<vp>[,<pid>[,<dcs>]]]]</dcs></pid></vp></fo>
Send Concatenated Messages	If text mode (+CMGF=1):  AT+CMGS Support to send long SMS.	<pre>If text mode (+CMGF=1): AT+QCMGS=<da>[,<toda>][,<uid>,<msg_seg>,<msg_tot al="">]</msg_tot></msg_seg></uid></toda></da></pre>
Store Class 0 SMS to SIM When Receiving Class 0 SMS	AT+QCLASS0= <mode></mode>	/
Configure SMS Code Mode	AT+QSMSCODE= <mode></mode>	
New Message Acknowledgement to UE/TE	1	AT+CNMA= <n></n>
Display Alphanumeric Name in SMS	AT+QCMT= <value></value>	AT+QCFG="sms/alpha"[, <value>]</value>



#### 2.8. Serial Port Commands

Function	M10	UC15
USB Modem	1	Support, support PPP Dail_up
USB AT	1	Support, does not support PPP Dail_up
Main UART	Support	Support
Hardware Flow Control	Support Default: No flow control	Support Default: No flow control
Software Flow Control	Support	1
Auto Baud Mode	Support	
Set TE-TA Fixed Local Rate	AT+IPR= <rate> <rate> 0 (Autobauding),75,150,300,600,1200,2400,4800, 9600,14400,19200,28800,38400,57600,115200 The default configuration of AT+IPR is autobauding enabled (AT+IPR=0). The value of AT+IPR cannot be restored with AT&amp;F and ATZ, but it is still storable with AT&amp;W</rate></rate>	AT+IPR= <rate> <rate> 300,600,1200,2400,4800,9600,19200,38400,57600,11520, 230400,460800,921600,3200000,3686400,4000000 Default: 115200bps. The value of AT+IPR cannot be restored with AT&amp;F and ATZ, but it is still storable with AT&amp;W.</rate></rate>
Set TE-TA Control Character Framing	AT+ICF=[ <format>,[<parity>]] <format> supports 1-6</format></parity></format>	AT+ICF=[ <format>,[<parity>]] <format> only supports 3 (8 data 0 parity 1 stop)</format></parity></format>
Set TE-TA Local Data Flow Control	AT+IFC= <dce_by_dte>,<dte_by_dce> <dce_by_dte> supports:  0 None  1 XON/XOFF  2 RTS flow control</dce_by_dte></dte_by_dce></dce_by_dte>	AT+IFC= <dce_by_dte>,<dte_by_dce> <dce_by_dte> supports:  0 None  2 RTS flow control <dte_by_dce> supports:</dte_by_dce></dce_by_dte></dte_by_dce></dce_by_dte>



Set DCD Function Mode	<pre><dte_by_dce> supports: 0    None 1    XON/XOFF 2    CTS flow control  AT&amp;C[<value>]</value></dte_by_dce></pre>	0 None 2 CTS flow control  AT&C[ <value>]</value>
Set DTR Function Mode	AT&D[ <value>]</value>	AT&D[ <value>]</value>
Switch From Data Mode to Command Mode	<ol> <li>To prevent the "+++" escape sequence from being misinterpreted as data, it should comply to the following sequence:</li> <li>Do not input any characters during T1 time (0.5 seconds) before inputting "+++".</li> <li>Input "+++", and no other characters can be inputted during this time. For CSD call or PPP online mode, the interval between two "+" should be less than 1 second and for a transparent TCPIP connection, the interval should be less than 20ms.</li> <li>No characters entered during T1 time (0.5 seconds).</li> <li>Switch to command mode, otherwise go to step 1.</li> </ol>	misinterpreted as data, it should comply to following sequence:  2. Do not input any character within T1 time (1000ms) before inputting "+++".  3. Input "+++" within 1000ms, and no other characters can be inputted during this time.  4. Do not input any character within T1 time (1000ms)
Ring Line Behavior of RING	1	AT+QCFG="urc/ri/ring"
Ring Line Behavior of Incoming SMS		AT+QCFG="urc/ri/smsincoming"
Ring Line Behavior of Other URCs		AT+QCFG="urc/ri/other"
Restore Ring Line to Inactive		AT+QRIR  If the behavior of ring line is "always", you should restore ring line to inactive by AT+QRIR. The behavior of ring line is



		controlled	by	AT+QCFG.	Please	refer	to
		AT+QCFG= and "AT+QC		ring", AT+Q0 rc/ri/other".	CFG="urc/ri/s	smsincon	ning"
Ring Line Signal Outputting Carrie	1	AT+QCFG=	"risign	altype",[ <risig< td=""><td>natype&gt;]</td><td></td><td></td></risig<>	natype>]		

#### 2.9. Call Commands

Function	M10	UC15
FAX	1	1
Answer an Incoming Call	ATA	ATA
Mobile Originated Call to Dial a Number	ATD <n>[<mgsm][;]< td=""><td>ATD<n>[<mgsm>][;]</mgsm></n></td></mgsm][;]<></n>	ATD <n>[<mgsm>][;]</mgsm></n>
Originate Call to Phone Number in Current Memory	ATD> <n> [;]</n>	ATD> <n> [;]</n>
Redial Last Telephone Number Used	ATDL[;]	1
Mobile Equipment Activity Status	AT+CPAS=? +CPAS: (0,2,3,4) OK	AT+CPAS=? +CPAS: (0,3,4) OK
Preference Speech Coding/AMR Codec Configuration	AT+QSFR= <mode></mode>	AT+QCFG="amrcodec"



Speech Channel Type Report	AT+QSPCH= <mode></mode>	
Disconnect Existing Connection	ATH	ATH
Disconnect Existing Connection	Alli	ATH cannot hang up package data call.
		AT+CVHU= <mode></mode>
Voice Hang Up Control		<mode></mode>
voice riang op Control		0 ATH is disconnected
		1 ATH is ignored but "OK" response is returned
		AT+CHUP
Hang Up Call	1	AT+CHUP cancels all voice calls in the state of Active,
		Waiting and Held. For circuit data connections, use ATH.
Switch From Command Mode to Data Mode	АТО	АТО
	AT+CBST=[ <speed>[,<name>[,<ce>]]] <speed> 0,4,5,6,7,12,14,68,70,71,75. Default value: 7</speed></ce></name></speed>	AT+CBST=[ <speed>[,<name>[,<ce>]]]</ce></name></speed>
Coloot Dooror Comico Timo		<speed></speed>
Select Bearer Service Type		0,7,12,14,16,17,39,43,48,51,71,75,80.81,83,116,134.
		Default value: 0
Select Type of Address	AT+CSTA= <type></type>	AT+CSTA= <type></type>
Select Type of Address	<type> 129,161,145</type>	<type> 129,145</type>
	AT+CLCC	AT+CLCC
	[+CLCC:	[+CLCC:
	<id1>,<dir>,<stat>,<mode>,<mpty>[,<number>,<type>[,"</type></number></mpty></mode></stat></dir></id1>	<id1>,<dir>,<stat>,<mode>,<mpty>[,<number>,<type>[,</type></number></mpty></mode></stat></dir></id1>
List Current Calls of ME	["]]	<alpha>]]</alpha>
List Guirent Gails of ML	[ <cr><lf>+CLCC:</lf></cr>	[+CLCC:
	<id2>,<dir>,<stat>,<mode>,<mpty>[,<number>,<type>[,"</type></number></mpty></mode></stat></dir></id2>	<id2>,<dir>,<stat>,<mode>,<mpty>[,<number>,<type>[,</type></number></mpty></mode></stat></dir></id2>
	"]]	<alpha>]]</alpha>
	[]]]	[]
Service Reporting Control	AT+CR=[ <mode>]</mode>	AT+CR=[ <mode>]</mode>



Tone Duration	AT+VTD= <n></n>		AT+VTD	= <dura< th=""><th>tion&gt;[,<interval>]</interval></th></dura<>	tion>[, <interval>]</interval>
DTMF Tone	AT+VTS= <dtn< td=""><td>nfstring&gt;</td><td></td><td>ing&gt; AS0 The</td><td>string&gt;[,<duration>] CII characters in the set 09,#,*, A, B, C, D. e string should be enclosed in quotation arks ("").</duration></td></dtn<>	nfstring>		ing> AS0 The	string>[, <duration>] CII characters in the set 09,#,*, A, B, C, D. e string should be enclosed in quotation arks ("").</duration>
Hang up Call with a Specific Release Cause	ATH17 Only support of	cause 17 (User busy).	AT+QHU	JP= <cau< td=""><td>use&gt;[,<idx>]</idx></td></cau<>	use>[, <idx>]</idx>
Configure Emergency Call Numbers	1		AT+QEO 2>,[,<		= <mode>,<type>[,<eccnum1>[,<eccnum N&gt;]]]</eccnum </eccnum1></type></mode>
	<t4> 3-255</t4>	equal 0.  Re-sequencing period in integer format, in a unit of 10ms.	For <ver <="" br=""> <n2> 1-1 <ver>&gt; 0-</ver></n2></ver>	->=2 6-255	10ms, 42-52-255.  Retransmission attempts N2.  RLP version number in integer format.
Select Radio Link Protocol Parameter	<iws> 0-61 <mws> 0-61 <t1> 39-255 <n2> 1-255 <verx> RLP</verx></n2></t1></mws></iws>	Interworking window size (IWF to MS).  Mobile window size (MS to IWF).  Acknowledgment timer T1 in a unit of 10ms.  Retransmission attempts N2.  RLP version number in integer format. When version indication is not presented, it shall	For <ver< td=""><td>-&gt;=2 0-61 -&gt;=2</td><td>0-240-488.  Mobile window size(MS to IWF),0-240-488.</td></ver<>	->=2 0-61 ->=2	0-240-488.  Mobile window size(MS to IWF),0-240-488.
	AT+CRI P=I <i< td=""><td>ws&gt;[,<mws>[,<t1>[,<n2>[,<ver>[,<t4>]]]]]</t4></ver></n2></t1></mws></td><td></td><td><b>P=[<iw< b="">: 0-61</iw<></b></td><td>s&gt;[,<mws>[,<t1>[,<n2>[,<ver>]]]]] Interworking window size (IWF to MS),</ver></n2></t1></mws></td></i<>	ws>[, <mws>[,<t1>[,<n2>[,<ver>[,<t4>]]]]]</t4></ver></n2></t1></mws>		<b>P=[<iw< b="">: 0-61</iw<></b>	s>[, <mws>[,<t1>[,<n2>[,<ver>]]]]] Interworking window size (IWF to MS),</ver></n2></t1></mws>
Incoming Call Indication	AT+CRC=[ <m< td=""><td>ode&gt;]</td><td>AT+CRC</td><td>C=[<mod< td=""><td>de&gt;]</td></mod<></td></m<>	ode>]	AT+CRC	C=[ <mod< td=""><td>de&gt;]</td></mod<>	de>]



#### 2.10. Identification Commands

Function	M10	UC15
	ATI	ATI
	Quectel_Ltd	Quectel
Display Product Identification	Quectel_M10	UC15
Information	Revision: <revision></revision>	Revision: <revision></revision>
	ОК	ОК
	AT+CGMI	
	Quectel_Ltd	AT+CGMI
Request Manufacturer	Quectel_M10	Quectel
Identification	Revision: MTK 0828	
		ОК
	ОК	
	AT+GMI	
	Quectel_Ltd	AT+GMI
Request Manufacturer	Quectel_M10	Quectel
Identification	Revision: MTK 0828	
		OK
	ОК	
	AT+GMM	AT+GMM
Request TA Model Identification	Quectel_M10	UC15
. toquest in throad identification		
	ОК	ОК
Request TA Revision	AT+GMR	AT+GMR
Identification of Software	Revision: <revision></revision>	Revision: <revision></revision>



Release		
	ОК	OK
	AT+CGMI	AT+CGMI
Request Manufacturer	<manufacturer></manufacturer>	<manufacturer></manufacturer>
Identification		
	ОК	OK
	AT+CGMM	AT+CGMM
Request Model Identification	Quectel_M10	UC15
	ок	ОК
Deguest TA Devision	AT+CGMR	AT+CGMR
Request TA Revision Identification of Software	Revision: <revision></revision>	Revision: <revision></revision>
Release		
	OK	OK
	AT+GSN	AT+GSN
Request International Mobile Equipment Identity (IMEI)	<imei></imei>	<imei></imei>
Equipment identity (initial)	ок	ок
De avec et Dan de et Conint Neverland	AT+CGSN	AT+CGSN
Request Product Serial Number Identification (Identical with	<imei></imei>	<imei></imei>
+GSN)	ОК	ОК
Configure URC Indication Option	1	AT+QURCCFG="urcport"[, <urcportvalue>]</urcportvalue>



## **2.11. Configuration Commands**

Function	M10	UC15
Set all Current Parameters to Manufacturer Defaults	AT&F	AT&F  Affected AT command settings are different from M10.  Please refer to Quectel_UC15_AT_Commands_Manual for the detail.
Display Current Configuration	AT&V	AT&V  Affected AT command settings are different from M10.  Please refer to Quectel_UC15_AT_Commands_Manual for the detail.
Store Current Parameters to User Defined Profile	AT&W	AT&W  Affected AT command settings are different from M10.  Please refer to Quectel_UC15_AT_Commands_Manual for the detail.
Set all Current Parameters to User Defined Profile	ATZ	ATZ  Affected AT command settings are different from M10.  Please refer to Quectel_UC15_AT_Commands_Manual for the detail.
Set Result Code Presentation Mode	ATQ <n></n>	ATQ <n></n>
TA Response Format	ATV <value></value>	ATV <value> <numeric code=""> does not support 9 (PROCEEDING).</numeric></value>
Set Command Echo Mode	ATE <value></value>	ATE <value></value>
Set Number of Rings before Automatically Answering Call	ATS0= <n></n>	ATS0= <n></n>



Set Command Line Termination Character	ATS3= <n></n>	ATS3= <n></n>
Set Response Formatting Character	ATS4= <n></n>	ATS4= <n></n>
Set Command Line Editing Character	ATS5= <n></n>	ATS5= <n></n>
Set Number of Seconds to Wait for Connection Completion	ATS7= <n> Default: 60 ATS7 is only applicable to data call.</n>	ATS7= <n> Default: 0 Support AT command, but the function is invalid now.</n>
Set CONNECT Result Code Format and Monitor Call Progress	ATX <value></value>	ATX <value></value>
Set Phone Functionality	AT+CFUN= <fun>,[<rst>] <fun> is: 0,1,4 <rst> is: 0,1</rst></fun></rst></fun>	AT+CFUN= <fun>[,<rst>] <fun> is: 0,1,4 <rst> is: 0,1 When <rst> is 1, <fun> does not support 0 or 4.</fun></rst></rst></fun></rst></fun>
Set Phone Extended Functionality		AT+QFUN= <op> <op> 5 Perform a power down to the SIM card 6 Perform a power up to the SIM card</op></op>
Error Message Format	AT+CMEE= <n></n>	AT+CMEE= <n></n>
Enable/Disable DTR to Control Power Save State		AT+QCFG="pwrsavedtr"[, <value>]</value>
Temperature Detection	AT+QTEMP= <mode></mode>	AT+QCFG="temp"[, <temptype>,<tempvalue>[,<tempon off="">]]</tempon></tempvalue></temptype>
Voltage Detection	/ AT+CPROTECT=? +CPROTECT: <temp>(1: protect on; 0: protect off),<low< td=""><td>AT+QCFG="vbatt"[,<vbatttype>,<vbattvalue>[,<vbattono ff="">]]</vbattono></vbattvalue></vbatttype></td></low<></temp>	AT+QCFG="vbatt"[, <vbatttype>,<vbattvalue>[,<vbattono ff="">]]</vbattono></vbattvalue></vbatttype>



	vol>, <high vol=""></high>	
	ОК	
Enable/Disable Airplane Mode Detection	1	AT+QCFG="airplanecontrol"[, <airplanecontrol>]</airplanecontrol>
GPRS Attach Mode Configuration	/	AT+QCFG="gprsattach"[, <attachmode>]</attachmode>
Network Search Mode Configuration		AT+QCFG="nwscanmode"[, <scanmode>[,&lt; effect&gt;]]</scanmode>
Network Searching Sequence Configuration		AT+QCFG="nwscanseq"[, <scanseq>[,<effect>]]</effect></scanseq>
Roam Service Configuration	1	AT+QCFG="roamservice"[, <roammode>[,<effect>]]</effect></roammode>
Service Domain Configuration	1	AT+QCFG="servicedomain"[, <service>[,<effect>]] <service> CS only, PS only, CS&amp;PS</service></effect></service>
Band Configuration	AT+QBAND= <op_band></op_band>	AT+QCFG="band"[, <bandval>[,<effect>]] Parameter <bandval> is different from M10. Support: GSM900&amp;GSM1800&amp;GSM850&amp;GSM1900&amp;WCDMA2100&amp; WCDMA1900&amp;WCDMA900&amp;WCDMA850&amp;WCDMA800</bandval></effect></bandval>
HSDPA Category Configuration	1	AT+QCFG="hsdpacat"[, <cat>]</cat>
RRC Release Version Configuration		AT+QCFG="rrc"[, <rrcr>]</rrcr>
UE SGSN Release Version Configuration	1	AT+QCFG="sgsn"[, <sgsnr>]</sgsnr>
UE MSC Release Version Configuration		AT+QCFG="msc"[, <mscr>]</mscr>



	AT+QGPCLASS= <class></class>	AT+QCFG="gprsmultislot"[, <gprsslot>]</gprsslot>
GPRS Multislot Class	GPRS multislot class	GPRS multislot class
Configuration	Range: 1-12	Range: 1-12, 30-34
	Default value: 12	Default value: 10
		AT+QCFG="edgemultislot"[, <edgeslot>]</edgeslot>
EDGE Multislot Class		EDGE multislot class
Configuration		Range: 1-34,
		Default value: 12.
DTM&EDTM Multislot Class		AT LOCECHUI de consulté a la tille de la terre la terre
Configuration		AT+QCFG="dtmmultislot"[, <dtmslot>]</dtmslot>

#### 2.12. Network Commands

Function	M10	UC15
Operator Selection	AT+COPS= <mode>[,<format>[,<oper>]]</oper></format></mode>	AT+COPS= <mode>[,<format>[,<oper>[,<act>]]] <act> Access technology selected 0 GSM 2 UTRAN 3 GSM W/EGPRS 4 UTRAN W/HSDPA 5 UTRAN W/HSDPA 6 UTRAN W/HSDPA and HSUPA</act></act></oper></format></mode>
Network Registration	AT+CREG? +CREG: <n>,<stat>[,<lac>,<ci>]</ci></lac></stat></n>	AT+CREG? +CREG: <n>,<stat>[,<lac>,<ci>[,<act>]]  OK</act></ci></lac></stat></n>



Signal Quality Report	AT+CSQ	AT+CSQ
Preferred Operator List	AT+CPOL= <index>[,<format>[,<oper>]]</oper></format></index>	AT+CPOL= <index>[,<format>[,<oper>[<gsm>,<gsm_compact>,<utran>]]]</utran></gsm_compact></gsm></oper></format></index>
Read Operator Names	AT+COPN	AT+COPN
Automatic Time Zone Update	1	AT+CTZU= <onoff></onoff>
Time Zone Reporting	AT+CTZR= <mode> <mode> range: 0-1</mode></mode>	AT+CTZR= <reporting> <reporting> range: 0-2</reporting></reporting>
Obtain the Latest Network Time Synchronization	AT+QLTS +QLTS: <time>,<ds></ds></time>	AT+QLTS +QLTS: <time>,<ds></ds></time>
Report Cell Description in Engineering Mode	AT+QENG	AT+QENG Parameters are different from M10. Please refer to Quectel_UC15_AT_Commands_Manual for the details.
Scan Power of GSM Frequency	AT+QSCANF= <band>,<freq></freq></band>	1
Lock GSM Frequency	AT+QLOCKF= <mode>,<band1900>,<freq></freq></band1900></mode>	1
Network Time Synchronization	AT+QNITZ= <enable></enable>	1
Get Module Operation Band	AT+QGBAND +QGBAND: <op_band></op_band>	AT+QGBAND +QGBAND: <currentband></currentband>



#### 2.13. PHB Commands

Function	M10	UC15
Subscriber Number	AT+CNUM [+CNUM: [ <alpha>],<number>,<type>[,<speed>,<service>[,<itc>]]] [+CNUM: [<alpha>],<number>,<type>[,<speed>,<service>[,<itc>]]]</itc></service></speed></type></number></alpha></itc></service></speed></type></number></alpha>	AT+CNUM [+CNUM: [ <alpha>],<number>,<type>] [+CNUM: [<alpha>],<number>,<type>] OK</type></number></alpha></type></number></alpha>
Find Phonebook Entries	OK  AT+CPBF=[ <findtext>]  [+CPBF: <index>,<number>,<type>,<text>]  []  OK</text></type></number></index></findtext>	AT+CPBF= <findtext> [+CPBF: <index>,<number>,<type>,<text>] [] OK</text></type></number></index></findtext>
Read Phonebook Entries	AT+CPBR= <index1>[,<index2>] +CPBR: <index1>,<number>,<type>,<text> [+CPBR: <index2>,<number>,<type>,<text> []]  OK If the index in AT+CPBR=<index> has no record, OK will be returned.</index></text></type></number></index2></text></type></number></index1></index2></index1>	AT+CPBR= <index1>[,<index2>] +CPBR: <index1>,<number>,<type>,<text> [+CPBR: <index2>,<number>,<type>,<text> []]  OK If the index in AT+CPBR=<index> has no record, +CME ERROR: 22 will be returned.</index></text></type></number></index2></text></type></number></index1></index2></index1>
Select Phonebook Memory Storage	AT+CPBS= <storage> <storage> "MC","RC","DC","LA","ME","BN","SD", "VM","FD","LD","ON","SM"</storage></storage>	AT+CPBS= <storage> <storage> "SM","DC","FD","LD","MC","ME","RC","EN","ON"</storage></storage>



10 76 71 76 77 444 10 10 10 10 10 10 10 10 10 10 10 10 10		Write Phonebook Entry	AT+CPBW= <index>[,<number>,[<type>,[<text>]]]</text></type></number></index>	AT+CPBW=[ <index>][,<number>[,<type>[,<text>]]]</text></type></number></index>
---	--	-----------------------	--	--

#### 2.14. PS Commands

Function	M10	UC15
	AT+CGDCONT= <cid>[,<pdp_type>,[APN&gt;[,<pdp_addr></pdp_addr></pdp_type></cid>	AT+CGDCONT= <cid>[,<pdp_type>[,<apn>[,<pdp_addr< td=""></pdp_addr<></apn></pdp_type></cid>
	[, <d_comp>[,<h_comp>]]]]]</h_comp></d_comp>	>[, <data_comp>[,<head_comp>]]]]]</head_comp></data_comp>
	AT+CGDCONT=?	AT+CGDCONT=?
Define PDP Context	+CGDCONT: (1-3),"IP",,,(0),(0)	+CGDCONT: (1-16),"IP",,,(0-2),(0-3)
Deline PDP Context		+CGDCONT: (1-16),"PPP",,,(0-2),(0-3)
	OK	+CGDCONT: (1-16),"IPV6",,,(0-2),(0-3)
		+CGDCONT: (1-16),"IPV4V6",,,(0-2),(0-3)
		ОК
	AT+CGQREQ= <cid>[,<pre>,<delay>[,<reliabilit< td=""><td>AT+CGQREQ=<cid>[,<pre>cedence&gt;[,<delay>[,<reliabilit< td=""></reliabilit<></delay></pre></cid></td></reliabilit<></delay></pre></cid>	AT+CGQREQ= <cid>[,<pre>cedence&gt;[,<delay>[,<reliabilit< td=""></reliabilit<></delay></pre></cid>
	y>[, <peak>[,<mean>]]]]]</mean></peak>	y>[, <peak>[,<mean>]]]]]</mean></peak>
	AT+CGQREQ=?	AT+CGQREQ=?
Quality of Service Profile	+CGQREQ: "IP",(0-3),(0-4),(0-5),(0-9),(0-18,31)	+CGQREQ: "IP",(0-3),(0-4),(0-5),(0-9),(0-18,31)
(Requested)		+CGQREQ: "PPP",(0-3),(0-4),(0-5),(0-9),(0-18,31)
	OK	+CGQREQ: "IPV6",(0-3),(0-4),(0-5),(0-9),(0-18,31)
		+CGQREQ: "IPV4V6",(0-3),(0-4),(0-5),(0-9),(0-18,31)
		ОК



	AT+CGQMIN= <cid>[,<pre>cedence&gt;[,<delay>[,<reliability< th=""><th>AT+CGQMIN=<cid>[,<pre>cid&gt;[,<delay>[,<reliability< th=""></reliability<></delay></pre></cid></th></reliability<></delay></pre></cid>	AT+CGQMIN= <cid>[,<pre>cid&gt;[,<delay>[,<reliability< th=""></reliability<></delay></pre></cid>
	>[, <peak>[,<mean>]]]]]</mean></peak>	>[, <peak>[,<mean>]]]]]</mean></peak>
	AT+CGQMIN=?	AT+CGQMIN=?
Quality of Service Profile	+CGQMIN: "IP",(0-3),(0-4),(0-5),(0-9),(0-18,31)	+CGQMIN: "IP",(0-3),(0-4),(0-5),(0-9),(0-18,31)
(Minimum Acceptable)		+CGQMIN: "PPP",(0-3),(0-4),(0-5),(0-9),(0-18,31)
	ОК	+CGQMIN: "IPV6",(0-3),(0-4),(0-5),(0-9),(0-18,31)
		+CGQMIN: "IPV4V6",(0-3),(0-4),(0-5),(0-9),(0-18,31)
		ОК
	AT+CGEQREQ=?	AT+CGEQREQ=[ <cid>[,<traffic class="">[,<maximum< td=""></maximum<></traffic></cid>
		bitrate UL>
	+CGEQREQ: "IP", (0-4), (0-63, 64+8m, 576+64n [m=0~63,	
	n=0~126]), (0-63, 64+8m, 576+64n [m=0~63, n=0~126]),	
	(0-63, 64+8m, 576+64n [m=0~63, n=0~126]), (0-63,	
	64+8m, 576+64n [m=0~63, n=0~126]), (0-2), (0, 10-1500,	
	1502, 1510, 1520),	[, <maximum sdu="" size=""></maximum>
	("0E0","1E2","7E3","1E3","1E4","1E5","1E6","1E1"),	[, <sdu error="" ratio=""></sdu>
3G Quality of Service Profile	("0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6	[, <residual bit="" error="" ratio=""></residual>
(Requested)	","6E8"), (0-3), (0, 10-150, 200-950, 1000-4100), (0-3)	[, <delivery erroneous="" of="" sdus=""></delivery>
		[, <transfer delay=""></transfer>
	ОК	[, <traffic handling="" priority=""></traffic>
		[, <source descriptor="" statistics=""/>
		[, <signaling indication="">]]]]]]]]]]]</signaling>
		AT+CGEQREQ=?
		+CGEQREQ:
		"IP",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-1520),(



		"0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),("0E 0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6","6 E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQREQ: "PPP",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),("0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6 ","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQREQ: "IPV6",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),("0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6 ","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQREQ: "IPV4V6",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6 ","6E8"),(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6 ","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1)
		ОК
	AT+CGEQMIN=?	AT+CGEQMIN=[ <cid>[,<traffic class=""></traffic></cid>
	+CGEQMIN: "IP", (0-3), (0-63, 64+8m, 576+64n [m=0~63,	[, <maximum bitrate="" ul=""> [,<maximum bitrate="" dl=""></maximum></maximum>
3G Quality of Service Profile	n=0~126]), (0-63, 64+8m, 576+64n [m=0~63, n=0~126]),	[, <guaranteed bitrate="" ul=""></guaranteed>
(Minimum Acceptable)	(0-63, 64+8m, 576+64n [m=0~63, n=0~126]), (0-63,	[, <guaranteed bitrate="" dl=""></guaranteed>
	64+8m, 576+64n [m=0~63, n=0~126]), (0-1), (0, 10-1500,	[, <delivery order=""></delivery>
	1502, 1510, 1520),	[, <maximum sdu="" size=""></maximum>
	("0E0","1E2","7E3","1E3","1E4","1E5","1E6","1E1"),	[, <sdu error="" ratio=""></sdu>



[,<Residual bit error ratio> ("0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6 ","6E8"), (0-2), (0, 10-150, 200-950, 1000-4100), (0-3) [,<Delivery of erroneous SDUs> [,<Transfer delay> OK [,<Traffic handling priority> [,<Source statistics descriptor> [,<Signalling indication>]]]]]]]]]]] AT+CGEQMIN=? +CGEQMIN: "IP",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-1520),( "0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),("0E 0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6","6 E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQMIN: "PPP",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),( "0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6 ","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQMIN: "IPV6",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-152 0),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6"),( "0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1E6 ","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1) +CGEQMIN: "IPV4V6",(0-4),(0-384),(0-7168),(0-384),(0-7168),(0-2),(0-1 520),("0E0","1E1","1E2","7E3","1E3","1E4","1E5","1E6" ),("0E0","5E2","1E2","5E3","4E3","1E3","1E4","1E5","1 E6","6E8"),(0-3),(0,100-4000),(0-3),(0,1),(0,1)



Activate or Deactivate PDP Context	AT+CGACT= <state>,<cid> AT+CGACT=0,<cid> NO CARRIER</cid></cid></state>	OK AT+CGACT= <state>,<cid> AT+CGACT=0,<cid> OK</cid></cid></state>
Show PDP Address	AT+CGPADDR[= <cid>[,<cid>[,]]]</cid></cid>	AT+CGPADDR[= <cid>[,<cid>[,]]]</cid></cid>
GPRS Mobile Station Class	AT+CGCLASS= <class> <class> A string parameter indicates the GPRS mobile class (Functionality in descending order )  "B" Class B  "CG" Class C in GPRS only mode  "CC" Class C in circuit switched only mode</class></class>	AT+CGCLASS= <class> <class> A string parameter indicates the GPRS mobile class (Functionality in descending order)  "A" Class A</class></class>
Network Registration Status	AT+CGREG=[ <n>] +CGREG: <n>,<stat>[,<lac>,<ci>] OK</ci></lac></stat></n></n>	AT+CGREG=[ <n>] +CGREG: <n>,<stat>[,<lac>,<ci>[,<act>]] OK</act></ci></lac></stat></n></n>
Select Service for MO SMS Messages	AT+CGSMS=[ <service>] <service> range: 0-3 Default: 3</service></service>	AT+CGSMS=[ <service>] <service> range: 0-3 Default: 1</service></service>
Configure 3G Parameters by QCFG	1	AT+QCFG="hsdpacat"[, <cat>] AT+QCFG="rrc"[,<rrcr>]</rrcr></cat>



## 2.15. SS Commands

Function	M10	UC15
Call Forwarding Number and	AT+CCFC= <reads>,<mode>[,<number>[,<type>[,<class< td=""><td>AT+CCFC=<reads>,<mode>[,<number>[,<type>[,<class< td=""></class<></type></number></mode></reads></td></class<></type></number></mode></reads>	AT+CCFC= <reads>,<mode>[,<number>[,<type>[,<class< td=""></class<></type></number></mode></reads>
Conditions Control	>[, <subaddr>[,<satype>[,time]]]]]</satype></subaddr>	>[, <subaddr>[,<satype>[,time]]]]]</satype></subaddr>
Call Waiting Control	AT+CCWA=[ <n>[,<mode>[,<class>]]]</class></mode></n>	AT+CCWA[= <n>][,<mode>[,<class>]]</class></mode></n>
Call Related Supplementary	AT COURSE AND	AT+CHLD[= <n>]</n>
Services	AT+CHLD[= <n>]</n>	<n> supports 4 (ECT)</n>
Calling Line Identification Presentation	AT+CLIP[= <n>]</n>	AT+CLIP[= <n>]</n>
Calling Line Identification Restriction	AT+CLIR[= <n>]</n>	AT+CLIR[= <n>]</n>
Connected Line Identification	ATLCOLDICANI	AT+COLD[= <n>1</n>
Presentation	AT+COLP[= <n>]</n>	AT+COLP[= <n>]</n>
Supplementary Service	AT I CCCNI - CON I	AT+CSSN= <n>[,<m>]</m></n>
Notifications	AT+CSSN= <n>[,<m>]</m></n>	AI+C33N-\II/[,\III/]
Unstructured Supplementary	AT+CUSD=[ <n>[,<str>[,<dcs>]]</dcs></str></n>	AT+CUSD= <mode>[,<reqstr>[,<dcs>]]</dcs></reqstr></mode>
Service Data	A1 . 000b=[ 415 [, 4005 ]]	Ai . 000D - Airodor [, Aioquar [, Aioquar [, Aioquar ]]

## 2.16. TCP Commands

With respect to the compatibility, we follow the rules listed as below:

1. When executing UC15 TCPIP AT commands, we will ensure that the operation procedure of UC15 is consistent with 2G modules as far as possible.



2. For some functions, we added many TCPIP AT commands into our 2G module, including AT+QIREGAPP, AT+QIFGCNT, AT+QIMODE, AT+QISERVER, AT+QIMUX, AT+QISRVC, AT+QIHEAD, AT+QISHOWRA, AT+QISHOWPT, AT+QISHOWLA and AT+QIND. Meanwhile, switch between TCP server and client, and multi-connection management are complicated on 2G platform. Therefore, we simplified UC15's command syntax, which can avoid customer's confusion, thus improving the efficiency of customer development and reducing the complexity of support.

Function	M10	UC15
Select a Context as Foreground Context	AT+QIFGCNT= <id>M10 can be configured to 2 scenarios: 0, 1</id>	AT+QICSGP= <contextid>,<contexttype>[,<apn>[,<usern ame="">,<password>[,<authentication>]]] UC15 can be configured to 16 scenarios: 1-16, but only supports at most 3 scenarios activated at the same time.</authentication></password></usern></apn></contexttype></contextid>
Select GPRS as the Bearer	AT+QICSGP= <mode>,[<apn>,<user name="">,<password>]</password></user></apn></mode>	AT+QICSGP= <contextid>,<contexttype>[,<apn>[,<usern ame="">,<password>[,<authentication>]]]</authentication></password></usern></apn></contexttype></contextid>
Select CSD as the Bearer	AT+QICSGP= <mode>,[<dialnumber>,<username>,<pas sword="">,<rate>]</rate></pas></username></dialnumber></mode>	1
Start TCPIP Task and Set APN, User Name and Password	AT+QIREGAPP= <apn>,<username>,<password>[,<rate>]</rate></password></username></apn>	AT+QICSGP= <contextid>,<contexttype>[,<apn>[,<usern ame="">,<password>[,<authentication>]]]</authentication></password></usern></apn></contexttype></contextid>
Control Whether to Enable Multiple TCPIP Session	AT+QIMUX= <mode> M10 could activate 2 scenarios, and support up to 6 sockets for the multiple connection.</mode>	/ UC15 supports the parameter <connectid> in AT+QIOPEN to configure multiple connections. It can also activate 3 scenarios and support up to 12 sockets.</connectid>
Select TCPIP Transfer Mode	AT+QIMODE= <mode> <mode>  Omega Non transparent access mode  Transparent access mode  AT+QINDI=<m> can be used to configure buffer access mode or direct push mode</m></mode></mode>	AT+QIOPEN= <contextid>,<connectid>,<servicetype>,<i paddress="">/<domainname>,<remoteport>[,<localport>[, <accessmode>]] <accessmode> 0 Buffer access mode 1 Direct push mode</accessmode></accessmode></localport></remoteport></domainname></i></servicetype></connectid></contextid>
	mode of direct push mode	2 Transparent access mode



		You can configure the parameter <accessmode> to set transfer mode.</accessmode>
Activate GPRS/CSD Context	AT+QIACT	AT+QIACT= <contextid> <contextid> supports 1-16 and can activate 3 scenarios.</contextid></contextid>
Get Local IP Address	AT+QILOCIP	AT+QIACT?
Deactivate GPRS/CSD PDP Context	AT+QIDEACT	AT+QIDEACT= <contextid></contextid>
Connect with IP Address or Domain Name Server	AT+QIDNSIP= <mode></mode>	1
Set Local Port	AT+QILPORT= <mode>,<port></port></mode>	1
Configure as TCP Server	AT+QISERVER	
Configure as TCP/UDP Server	AT+QISERVER= <type>[,<max>]</max></type>	
Single Start up TCP or UDP Connection	AT+QIOPEN= <mode>,<ip address="">/<domain name="">,<port></port></domain></ip></mode>	AT+QIOPEN= <contextid>,<connectid>,<servicetype>,<i paddress="">/<domainname>,<remoteport>[,<localport>[,<accessmode>]]</accessmode></localport></remoteport></domainname></i></servicetype></connectid></contextid>
Multiple Start up TCP or UDP Connection	AT+QIOPEN= <index>,<mode>,<ip address="">/<domain name="">,<port></port></domain></ip></mode></index>	
Choose Connection	AT+QISRVC= <connection></connection>	
Switch Data Access Mode	1	AT+QISWTMD= <connectid>,<accessmode></accessmode></connectid>
Single/Multiple Query Current Connection Status	AT+QISTAT	AT+QISTATE= <querytype>,<contextid></contextid></querytype>
Multiple Close TCP or UDP Connection	AT+QICLOSE= <index></index>	AT+QICLOSE= <connectid>[,<timeout>]</timeout></connectid>
Single Close TCP or UDP Connection	AT+QICLOSE	



Single Send Data through TCP or UDP Connection	AT+QISEND AT+QISEND= <length></length>	If <servicetype> is "TCP", "UDP" or "TCP INCOMING", send data with changeable length:  AT+QISEND=<connectid>  If<servicetype> is "TCP", "UDP" or "TCP INCOMING", send</servicetype></connectid></servicetype>
Multiple Send Data through TCP or UDP Connection	AT+QISEND= <index>,<length></length></index>	data with fixed length:  AT+QISEND= <connectid>,<sendlength>  If <servicetype> is "UDP SERVICE":  AT+QISEND=<connectid>,<sendlength>,<remoteip>,<remoteport></remoteport></remoteip></sendlength></connectid></servicetype></sendlength></connectid>
Query the Data Information for Sending	AT+QISACK= <n></n>	AT+QISEND= <connectid>,0</connectid>
Set Auto Sending Timer	AT+QIAUTOS= <mode>[,<time>]</time></mode>	
Set Prompt of ">" When Sending Data	<ul> <li>AT+QIPROMPT=<sendprompt></sendprompt></li> <li>No prompt "&gt;" and show "SEND OK" when sending is successful.</li> <li>Echo prompt "&gt;" and show "SEND OK" when sending is successful.</li> <li>No prompt and not show "SEND OK" when sending is successful.</li> </ul>	Not implemented, the default echo prompt ">" and show "SEND OK"
Control Whether or not to Echo the Data for QISEND	AT+QISDE= <m> 0 Not echo 1 Echo</m>	AT+QISDE= <m> 0 Not echo 1 Echo</m>
Set the Method to Handle Received TCP/IP Data in Buffer Access Mode or Direct Push Mode	AT+QINDI= <m></m>	The <accessmode> parameter of AT+QIOPEN can set the buffer mode or direct push mode</accessmode>



Retrieve the Received TCP/IP  Data in Buffer Access Mode	AT+QIRD= <id>,<sc>,<sid>,<len></len></sid></sc></id>	AT+QIRD= <connectid>[,<readlength>]</readlength></connectid>
Query Retrieved Data		AT+QIRD= <connectid>,0</connectid>
URC Connect Closed	CLOSED	+QIURC: "closed", <connectid></connectid>
URC Receive Data in Buffer Access Mode	+QIRDI: <id>,<sc>,<sid></sid></sc></id>	+QIURC: "recv", <connectid></connectid>
URC Single Receive Data in Direct Push Mode	Client receives data <data> or incoming receives data <data> You can use AT+QIHEAD, AT+QISHOWRA, AT+QISHOWPT to set the head of data.</data></data>	+QIURC:  "recv", <connectid>,<currentrecvlength><cr><lf><dat a=""> +QIURC:  "recv",<connectid>,<currentrecvlength>,<remoteip>,<r emoteport=""><cr><lf><data></data></lf></cr></r></remoteip></currentrecvlength></connectid></dat></lf></cr></currentrecvlength></connectid>
URC Multiple Receive Data in Direct Push Mode	+RECEIVE: <index>,<length> <data> You can use AT+QIHEAD, AT+QISHOWRA, AT+QISHOWPT to set the head of data.</data></length></index>	
URC of Incoming Connection Full		+QIURC: "incoming full"
URC Single Accept a Remote Client Connection	REMOTE IP: IP Address	+QIURC: "incoming", <connectid>,<serverid>,<remoteip>,<remot< td=""></remot<></remoteip></serverid></connectid>
URC Multiple Accept a Remote Client Connection	<index>, REMOTE IP: IP Address</index>	eport>
URC PDP Deactivation	+PDP DEACT	+QIURC: "pdpdeact", <contextid></contextid>
Set Whether to Display the Address of Sender	AT+QISHOWRA= <mode></mode>	



Control Whether to Show the Protocol Type	AT+QISHOWPT= <mode></mode>	1
Control Whether to Display Local IP Address	AT+QISHOWLA= <mode></mode>	1
Add an IP Header When Receiving Data	AT+QIHEAD= <mode></mode>	1
Save TCPIP Application Context	AT+QISCON	
Ping a Remote Server	AT+QPING=" <host>"[,[<timeout>][,<pingnum>]]</pingnum></timeout></host>	AT+QPING= <contextid>,<host>[,<timeout>[,<pingnum>]]</pingnum></timeout></host></contextid>
Synchronize the Local Time via NTP	AT+QNTP	AT+QNTP= <contextid>,<server>[,<port>][,<autosettime>]]</autosettime></port></server></contextid>
Configure Domain Name Server	AT+QIDNSCFG= <pri_dns>[,<sec_dns>]</sec_dns></pri_dns>	AT+QIDNSCFG= <contextid>,<pridnsaddr>[,<secdnsadd r="">]</secdnsadd></pridnsaddr></contextid>
Query the IP Address of Given Domain Name	AT+QIDNSGIP= <domain name=""></domain>	AT+QIDNSGIP= <contextid>,<hostname></hostname></contextid>
Configure Transparent Transfer Mode	AT+QITCFG= <nmretry>,<waittm>,<sendsz>,<esc></esc></sendsz></waittm></nmretry>	AT+QICFG="transpktsize"[, <transpktsize>] AT+QICFG="transwaittm"[,<transwaittm>]</transwaittm></transpktsize>
Query the Last Error Code	1	AT+QIGETERROR

## 2.17. FTP Commands

Function	M10	UC15
Configure Username&Password	AT+QFTPUSER=" <username>" AT+QFTPPASS="<password>"</password></username>	AT+QFTPCFG="account"[, <user name="">,<password>]</password></user>
Configure Context ID	AT+QIFGCNT= <id></id>	AT+QFTPCFG="contextid"[, <contextid>]</contextid>



Configure Active/Passive Mode	AT+QFTPCFG= <type>[,<value>] <value> If (<type>==1) 0 Active mode 1 Passive mode</type></value></value></type>	AT+QFTPCFG="transmode"[, <transmode>]</transmode>
Configure Transfer Type (TYPE A/TYPE B)	AT+QFTPCFG= <type>[,<value>] <value> If (<type>==2) 0 Set the transfer type as binary 1 Set the transfer type as ASCII</type></value></value></type>	AT+QFTPCFG="filetype"[, <file type="">]</file>
Configure Timeout	1	AT+QFTPCFG="rsptimeout"[, <timeout>]</timeout>
Configure Breakpoints	AT+QFTPCFG= <type>[,<value>] <value> If (<type>==3), it is the resuming point to resume file transfer.</type></value></value></type>	AT+QFTPPUT= <file_name>,"COM:"[,<startpos>[,<uplo adlen="">,<beof>]] AT+QFTPGET=<file_name>,"COM:"[,<startpos>[,<dow nloadlen="">]]  AT+QFTPPUT=<file_name>,<local_name> [,<startpos>] AT+QFTPGET=<file_name>,<local_name> [,<startpos>] <local_name> is not "COM:". <startpos> is used to configure breakpoints.</startpos></local_name></startpos></local_name></file_name></startpos></local_name></file_name></dow></startpos></file_name></beof></uplo></startpos></file_name>
Configure Local File Path	AT+QFTPCFG= <type>[,<value>] <value> If (<type>==4), it is a string to indicate the local position of the file to transfer.</type></value></value></type>	AT+QFTPPUT= <file_name>,<local_name> [,<startpos>] AT+QFTPGET=<file_name>,<local_name> [,<startpos>] <local_name> is not "COM:" Configure local file path for UFS or RAM.</local_name></startpos></local_name></file_name></startpos></local_name></file_name>
Login to FTP Server	AT+QFTPOPEN=" <hostname>", <port></port></hostname>	AT+QFTPOPEN=" <host_name>", <port></port></host_name>
Set the Current Directory on FTP Server	AT+QFTPPATH=" <pathname>"</pathname>	AT+QFTPCWD=< path_name>



Get the Current Directory on FTP Server	AT+QFTPPATH?	AT+QFTPPWD
Upload a File to FTP Server	AT+QFTPPUT=" <filename>",<filesz>[,<time>]</time></filesz></filename>	AT+QFTPPUT= <file_name>,"COM:"[, <startpos>[,<uploadlen>,<beof>]]</beof></uploadlen></startpos></file_name>
		AT+QFTPPUT= <file_name>,<local_name>[,<startpos>] <local_name> is not "COM:".</local_name></startpos></local_name></file_name>
Download a File from FTP Server	AT+QFTPGET=" <filename>"[,fileSz]</filename>	AT+QFTPGET= <file_name>,"COM:"[, <startpos>[,<downloadlen>]]</downloadlen></startpos></file_name>
CCIVCI		AT+QFTPGET= <file_name>,<local_name>[,<startpos>] <local_name> is not "COM:".</local_name></startpos></local_name></file_name>
List Contents of Directory on FTP Server	AT+QFTPLIST[=" <name>"]</name>	AT+QFTPLIST= <dirname>[,"COM:"]  AT+QFTPLIST=<dirname>,<local_name></local_name></dirname></dirname>
		The <local_name> is not "COM:".</local_name>
List File Names of Directory on FTP Server	AT+QFTPNLST[=" <dirname>"]</dirname>	AT+QFTPNLST= <dirname>[,"COM:"]  AT+QFTPNLST=<dirname>,<local_name> <local_name> is not "COM:".</local_name></local_name></dirname></dirname>
Get the File Size on FTP Server	AT+QFTPSIZE= <file name=""></file>	AT+QFTPSIZE=< file_name>
Delete the File on FTP Server	AT+QFTPDELETE=" <file name="">"</file>	AT+QFTPDEL =< file_name>
Make a Folder on FTP Server	AT+QFTPMKDIR=" <path name="">"</path>	AT+QFTPMKDIR=< folder_name> UC15 <folder_name> is same as M10 <path name="">.</path></folder_name>
Delete a Folder on FTP Server	AT+QFTPRMDIR=" <path name="">"</path>	AT+QFTPRMDIR=< folder_name>
Get the Status of FTP Service	AT+QFTPSTAT	AT+QFTPSTAT



	Response +QFTPSTAT: <state></state>	Response <b>OK</b>
	ок	+QFTPSTAT: 0, <ftpstat></ftpstat>
	AT+QFTPLEN	AT+QFTPLEN
Cat the transferred data length	Response	Response
Get the transferred data length on FTP Server	+QFTPLEN: <len></len>	OK
on FTP Server		
	ОК	+QFTPLEN: 0, <transferlen></transferlen>
	AT+QFTPCLOSE	AT+QFTPCLOSE
	Response	Response
Logout from FTP Server	ОК	ОК
	+QFTPCLOSE: <err></err>	+QFTPCLOSE: <err>,<protocol error=""></protocol></err>
FTP Command Error Code	+QFTPXX: <err></err>	+QFTPXX: <error code="">,<protocol error=""></protocol></error>



## 3 Appendix A Reference

**Table 1: Related Documents** 

SN	Document Name	Remark
[1]	Quectel_UC15_AT_Commands_Manual	UC15 AT commands Manual
[2]	Quectel_UC15_FTP_AT_Commands_Manual	UC15 FTP AT commands Manual
[3]	Quectel_M10_AT_Commands_Manual	M10 AT commands Manual