

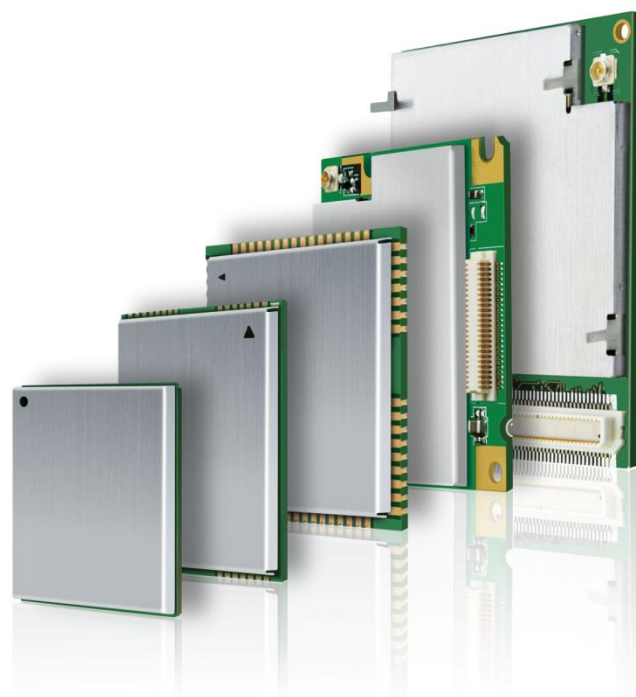


GSM

Quectel Cellular Engine

GSM AT Commands Application Note

GSM_ATC_AN_V1.2



RING	// Response for StepA1: New incoming CSD call
ATA	// StepB1: Answer CSD call
CONNECT 9600	// Response for StepB1: CSD connection is set up
QUECTEL TEST002	// Response for StepA2: Receive data from module A " QUECTEL TEST002 "
	StepB2: Send data to module B " QUECTEL TEST001 "
	StepB3: Send data to module B " QUECTEL TEST003 "
NO CARRIER	// Response for StepA6: Hang up CSD connection

Note:

M95, M66, M72, GC10, M10 and M85 module do not support to set up CSD.

13. TCPIP

Table 12: TCPIP AT commands

AT command	Description
AT+QIFGCNT	Select a context as foreground context
AT+QIMODE	Set TCPIP transferring mode
AT+QIMUX	Control whether to display local IP address
AT+QISACK	Query the data information for sending
AT+QISERVER	Configure as a server
AT+QIOPEN	Start up TCP or UDP connection
AT+QICLOSE	Close TCP or UDP connection
AT+QISTAT	Query current connection status
AT+QIDEACT	Deactivate GPRS/CSD PDP context
AT+QISEND	Send data through TCP or UDP connection
AT+QIREGAPP	Start TCPIP task and set APN, user name, password
AT+QIACT	Bring up wireless connection with GPRS or CSD
AT+QILOCIP	Get local IP address
AT+QILPORT	Set local port
AT+QIDNSCFG	Configure domain name server
AT+QIDNSGIP	Query the IP address of given domain name
AT+QIDNSIP	Connect with IP address or domain name server
AT+QIHEAD	Add an IP header when receiving data
AT+QISHOWRA	Set whether to display the address of sender
AT+QIAUTOS	Set auto sending timer
AT+QIPROMPT	Set prompt of '>' when sending data
AT+QICSGP	Select CSD or GPRS as the bearer
AT+QISRVC	Choose connection
AT+QISCON	Save TCPIP application context
AT+QITCFG	Configure transparent transferring mode
AT+QISHOWPT	Control whether to show the protocol type
AT+QISHOWLA	Control whether to display local IP address

About detailed steps and information, please refer to document: *GSM_TCPIP_AN.pdf*.

14. MUX

Table 13: MUX AT commands

AT command	Description
AT+CMUX	Set MUX mode

About detail steps and information, please refer to document *GSM_MUX_AN.pdf*.

15. HTTP

Table 14: HTTP AT commands

AT command	Description
AT+QHTTPURL	Set HTTP server URL
AT+QHTTPGET	Send HTTP GET request
AT+QHTTPREAD	Read HTTP server response
AT+QHTTPPOST	Send HTTP POST request

About detailed steps and information, please refer to document *GSM_HTTP_ATC.pdf*.

16. FTP

Table 15: FTP AT commands

AT command	Description
AT+QFTPOPEN	Open an FTP service to the given FTP server
AT+QFTPCLOSE	Close the FTP service
AT+QFTPPUT	Upload a file to the FTP server
AT+QFTPGET	Download a file from the FTP server
AT+QFTPPATH	Set the path in the FTP server to upload or download file
AT+QFTPUSER	Set the user name of the account to open FTP service
AT+QFTPPASS	Set the password of the account to open FTP service
AT+QFTPCFG	Set some configurable parameters for the FTP service
AT+QFTPSTAT	Query status of FTP service

About detailed steps and information, please refer to document *GSM_FTP_ATC.pdf*.

17. MMS

Table 16: MMS AT commands

AT command	Description
AT+QMMURL	Set the URL of the MMSC
AT+QMMPROXY	Set the MMS proxy
AT+QMMCFG	Set the parameter for sending MMS
AT+QFLDS	Get UFS information
AT+QFUPL	List UFS files
AT+QFDEL	Upload file to UFS
AT+QMMSCS	Download file from UFS
AT+QMMSW	Delete file in UFS
AT+QMMSEND	Set character sets and input mode
AT+QMMRM	Write MMS
AT+QMMRR	Send MMS
AT+QMMRECV	Manage the received MMS
AT+QMPRI	Read a received MMS

About detailed steps and information, please refer to document *GSM_MMS_ATC.pdf*.

18. FAX

Table 17: FAX AT commands

AT command	Description
AT+FCLASS	Set FAX mode
AT+CSNS	Set data transferring mode

About detailed steps and information, please refer to document *FAX Setup.pdf*.

19. Alarm and others

Table 18: Alarm and others AT commands

AT command	Description
AT+QALARM	Set alarm
AT+CCLK	Set clock
AT+CFUN	Set phone functionality
AT+QENG	Report cell description in engineer mode
ATV	TA response format
ATE	Set command echo mode
A/	Re-issue last AT command given
AT+CMEE	Report mobile equipment error

The following sections give some examples for the related AT commands in details.

19.1. Query/set clock

```
AT+CCLK? // Query current clock
+CCLK: "08/01/01,06:06:24+00"
OK
```

```
AT+CCLK="09/09/09,12:00:00+00" // Set clock
OK
```

19.2. Set alarm

Example 1: Normal alarm

```
AT+CCLK? // Query current clock
+CCLK: "08/01/02,00:04:29+00"
OK

AT+QALARM=1, "08/01/02,00:06:00+00",0,0 // <power>=0, set as normal alarm
OK

ALARM RING // Alarm expires
```

Example 2: Boot alarm

```

AT+QALARM=1, "08/01/02,00:06:00+00",0,2 // Set boot alarm, <power>=2 indicates
                                         boot alarm
OK

AT+QPOWD=1 // Power off with AT command (can also power off with power key)
NORMAL POWER DOWN

RDY // Alarm expires, system will auto boot and enter
ALARM MODE Alarm mode

+CFUN: 0

NORMAL POWER DOWN // System will auto power off after entering
                    alarm mode for 90 seconds

```

19.3. Set phone functionality

```

AT+CFUN=1 // Set phone functionality as full function
OK

```

19.4. Query parameters of network

```

AT+QENG=1 // <mode>=1, start monitoring parameters of network,
           no unsolicited information reported
OK

AT+QENG? // Query service cell description etc.
+QENG: 1,0

+QENG: 0,460,00,1806,2602,64,46,-54,189,189,5,8,x,x,x,x,x,x,x

OK

AT+QENG=2 // <mode>=2, start monitoring parameters of network, and
           cell description will be reported as unsolicited information
OK

```

```
+QENG: 0,460,00,1806,2602,64,46,-54,190,190,5,8,x,x,x,x,x,x,x
// URC reported

AT+QENG=0 // <mode>=0, stop monitoring parameters of network,
OK
```

19.5. Setting of power saving mode

```
AT+QSCLK? // Query the setting of power saving mode. (Power saving
is disabled as default)
+QSCLK: 0

OK

AT+QSCLK=1 // <n>=1 , allow to enter power saving mode
OK

AT+QSCLK=0 // <n>=0 , forbid to enter power saving mode
OK
```

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