

```
/* Start AT SYNC: Send AT every 500ms, if receive OK, SYNC success, if no OK return after sending AT 10 times, SYNC fail */
```

```
[2020-07-29 12:56:47:874_S:] AT
[2020-07-29 12:56:47:944_R:] AT
[2020-07-29 12:56:47:944_R:] OK
[2020-07-29 12:56:47:964_S:] ATI
[2020-07-29 12:56:48:023_R:] ATI
[2020-07-29 12:56:48:023_R:] Quectel
[2020-07-29 12:56:48:023_R:] EG25
[2020-07-29 12:56:48:023_R:] Revision: EG25GGBR07A04M2G
```

```
[2020-07-29 12:56:48:023_R:] OK
[2020-07-29 12:56:48:044_S:] ATI
[2020-07-29 12:56:48:104_R:] ATI
[2020-07-29 12:56:48:104_R:] Quectel
[2020-07-29 12:56:48:104_R:] EG25
[2020-07-29 12:56:48:104_R:] Revision: EG25GGBR07A04M2G
```

```
[2020-07-29 12:56:48:104_R:] OK
```

```
/* Use ATV1 to set the response format */
```

```
[2020-07-29 12:56:48:124_S:] ATV1
[2020-07-29 12:56:48:184_R:] ATV1
[2020-07-29 12:56:48:184_R:] OK
```

```
/* Use ATE1 to enable echo mode */
```

```
[2020-07-29 12:56:48:464_S:] ATE1
[2020-07-29 12:56:48:524_R:] ATE1
[2020-07-29 12:56:48:524_R:] OK
```

```
/* Use AT+CMEE=2 to enable result code and use verbose values */
```

```
[2020-07-29 12:56:48:694_S:] AT+CMEE=2
[2020-07-29 12:56:48:774_R:] AT+CMEE=2
[2020-07-29 12:56:48:774_R:] OK
```

```
/* Get the baudrate, if the value is 0 (auto baudrate), then it will be set to 115200 (fixed baudrate) to assure reliable communication and avoid any problems caused by undetermined baudrate between DCE and DTE, value of IPR should be saved with AT&W */
```

```
[2020-07-29 12:56:49:014_S:] AT+IPR?
[2020-07-29 12:56:49:074_R:] AT+IPR?
[2020-07-29 12:56:49:074_R:] +IPR: 115200
```

```
[2020-07-29 12:56:49:074_R:] OK
```

```
/* Use ATI to get module information of Manufacturer ID, Device module and Firmware version */
```

```
[2020-07-29 12:56:49:136_S:] ATI
[2020-07-29 12:56:49:194_R:] ATI
```

[2020-07-29 12:56:49:194_R:] Quectel
[2020-07-29 12:56:49:194_R:] EG25
[2020-07-29 12:56:49:194_R:] Revision: EG25GGBR07A04M2G

[2020-07-29 12:56:49:194_R:] OK

/* Use AT+GSN to query the IMEI of module */

[2020-07-29 12:56:49:316_S:] AT+GSN
[2020-07-29 12:56:49:373_R:] AT+GSN
[2020-07-29 12:56:49:373_R:] 867698040001383

[2020-07-29 12:56:49:373_R:] OK

/* Use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 12:56:52:896_S:] AT+CPIN?
[2020-07-29 12:56:52:965_R:] AT+CPIN?
[2020-07-29 12:56:52:965_R:] +CPIN: READY

[2020-07-29 12:56:52:965_R:] OK

/* Use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 12:56:55:949_S:] AT+CPIN?
[2020-07-29 12:56:56:018_R:] AT+CPIN?
[2020-07-29 12:56:56:018_R:] +CPIN: READY

[2020-07-29 12:56:56:018_R:] OK

/* Use AT+CSQ to query current signal quality */

[2020-07-29 12:56:56:018_S:] AT+CSQ
[2020-07-29 12:56:56:081_R:] AT+CSQ
[2020-07-29 12:56:56:081_R:] +CSQ: 31,99

[2020-07-29 12:56:56:081_R:] OK

/* Use AT+CREG? /AT+CGREG? to query the network registration status. */

[2020-07-29 12:56:56:081_S:] AT+CREG?
[2020-07-29 12:56:56:150_R:] AT+CREG?
[2020-07-29 12:56:56:150_R:] +CREG: 0,1

[2020-07-29 12:56:56:150_R:] OK
[2020-07-29 12:56:56:150_S:] AT+CGREG?
[2020-07-29 12:56:56:219_R:] AT+CGREG?
[2020-07-29 12:56:56:219_R:] +CGREG: 0,1

[2020-07-29 12:56:56:219_R:] OK

/* Use AT+COPS? to query current Network Operator */

```
[2020-07-29 12:56:56:219_S:] AT+COPS?
[2020-07-29 12:56:56:281_R:] AT+COPS?
[2020-07-29 12:56:56:281_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 12:56:56:281_R:] OK

/* Use AT+QCCID to query ICCID number of SIM card */
[2020-07-29 12:56:57:036_S:] AT+QCCID
[2020-07-29 12:56:57:099_R:] AT+QCCID
[2020-07-29 12:56:57:099_R:] +QCCID: 89918640400232181128

[2020-07-29 12:56:57:099_R:] OK

/* Use AT+CIMI to query the IMSI of SIM card */
[2020-07-29 12:56:57:322_S:] AT+CIMI
[2020-07-29 12:56:57:384_R:] AT+CIMI
[2020-07-29 12:56:57:384_R:] 405864064998876

[2020-07-29 12:56:57:384_R:] OK

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or
unlocked */
[2020-07-29 12:57:23:120_S:] AT+CPIN?
[2020-07-29 12:57:23:183_R:] AT+CPIN?
[2020-07-29 12:57:23:183_R:] +CPIN: READY

[2020-07-29 12:57:23:183_R:] OK

/*Use AT+CEREG? to query current EPS Network Registration Status*/
[2020-07-29 12:57:23:183_S:] AT+CEREG?
[2020-07-29 12:57:23:252_R:] AT+CEREG?
[2020-07-29 12:57:23:252_R:] +CEREG: 0,1

[2020-07-29 12:57:23:252_R:] OK

/* use AT+CSQ to query current signal quality */
[2020-07-29 12:57:23:299_S:] AT+CSQ
[2020-07-29 12:57:23:368_R:] AT+CSQ
[2020-07-29 12:57:23:368_R:] +CSQ: 31,99

[2020-07-29 12:57:23:368_R:] OK

/* use AT+CREG? /AT+CGREG? to query the network registration status, if the return
value is [0,1] or [0,5], it is successfully registered, other value is fail to
register */
[2020-07-29 12:57:23:368_S:] AT+CREG?
[2020-07-29 12:57:23:437_R:] AT+CREG?
[2020-07-29 12:57:23:437_R:] +CREG: 0,1

[2020-07-29 12:57:23:437_R:] OK
```

```
[2020-07-29 12:57:23:437_S:] AT+CGREG?
[2020-07-29 12:57:23:499_R:] AT+CGREG?
[2020-07-29 12:57:23:499_R:] +CGREG: 0,1

[2020-07-29 12:57:23:499_R:] OK

/*Use AT+CSCA? to query Service Center Address*/
[2020-07-29 12:57:23:499_S:] AT+CSCA?
[2020-07-29 12:57:23:569_R:] AT+CSCA?
[2020-07-29 12:57:23:569_R:] +CSCA: "+917020075009",145

[2020-07-29 12:57:23:569_R:] OK

/* Use ATE1 to enable echo mode */
[2020-07-29 12:57:29:942_S:] ATE1
[2020-07-29 12:57:30:020_R:] ATE1
[2020-07-29 12:57:30:020_R:] OK

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or
unlocked */
[2020-07-29 12:57:30:035_S:] AT+CPIN?
[2020-07-29 12:57:30:104_R:] AT+CPIN?
[2020-07-29 12:57:30:104_R:] +CPIN: READY

[2020-07-29 12:57:30:104_R:] OK

/* Use AT+CMGF=1 to set text mode */
[2020-07-29 12:57:30:104_S:] AT+CMGF=1
[2020-07-29 12:57:30:173_R:] AT+CMGF=1
[2020-07-29 12:57:30:173_R:] OK

/* Use AT+CSMP to set SMS parameter for text mode (default setting:
AT+CSMP=17,167,0,0) */
[2020-07-29 12:57:30:173_S:] AT+CSMP=17,167,0,0
[2020-07-29 12:57:30:236_R:] AT+CSMP=17,167,0,0
[2020-07-29 12:57:30:236_R:] OK

/* Use AT+CSCS to set character type (default setting:AT+CSCS="GSM") */
[2020-07-29 12:57:30:236_S:] AT+CSCS="GSM"
[2020-07-29 12:57:30:305_R:] AT+CSCS="GSM"
[2020-07-29 12:57:30:305_R:] OK

/* AT+CMGS="982xxxxxxx2", and then wait for the">" appears, input your message
after the ">", use <CTRL+Z> or 1A (HEX String) to send a message,when receive
+CMGS:<index> and OK , means the message has been sent successfully. */
[2020-07-29 12:57:30:305_S:] AT+CMGS="982xxxxxxx2"
[2020-07-29 12:57:30:374_R:] AT+CMGS="982xxxxxxx2"
[2020-07-29 12:57:30:374_R:] > hello
/* if send message fail , you may need to check the SIM states, the network states,
the receiver number,the SMSC is right or not ,then try to send message again */
```

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 12:58:53:303_S:] AT+CPIN?

[2020-07-29 12:59:23:255_S:] AT

[2020-07-29 13:00:30:565_R:] +CMS ERROR: unknown error

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 13:05:05:151_S:] AT+CPIN?

[2020-07-29 13:05:05:220_R:] AT+CPIN?

[2020-07-29 13:05:05:220_R:] NO CARRIER

/* Use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 13:11:26:657_S:] AT+CPIN?

[2020-07-29 13:11:26:735_R:] AT+CPIN?

[2020-07-29 13:11:26:735_R:] +CPIN: READY

[2020-07-29 13:11:26:735_R:] OK

/* Use AT+CSQ to query current signal quality */

[2020-07-29 13:11:26:735_S:] AT+CSQ

[2020-07-29 13:11:26:804_R:] AT+CSQ

[2020-07-29 13:11:26:804_R:] +CSQ: 31,99

[2020-07-29 13:11:26:804_R:] OK

/* Use AT+CREG? /AT+CGREG? to query the network registration status. */

[2020-07-29 13:11:26:804_S:] AT+CREG?

[2020-07-29 13:11:26:873_R:] AT+CREG?

[2020-07-29 13:11:26:873_R:] +CREG: 0,1

[2020-07-29 13:11:26:873_R:] OK

[2020-07-29 13:11:26:873_S:] AT+CGREG?

[2020-07-29 13:11:26:935_R:] AT+CGREG?

[2020-07-29 13:11:26:935_R:] +CGREG: 0,1

[2020-07-29 13:11:26:935_R:] OK

/* Use AT+COPS? to query current Network Operator */

[2020-07-29 13:11:26:935_S:] AT+COPS?

[2020-07-29 13:11:27:004_R:] AT+COPS?

[2020-07-29 13:11:27:004_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:11:27:004_R:] OK

/* Use AT+QCCID to query ICCID number of SIM card */

[2020-07-29 13:11:29:180_S:] AT+QCCID

[2020-07-29 13:11:29:258_R:] AT+QCCID

[2020-07-29 13:11:29:258_R:] +QCCID: 89918640400232181128

[2020-07-29 13:11:29:258_R:] OK

/* Use AT+CIMI to query the IMSI of SIM card */

[2020-07-29 13:11:29:481_S:] AT+CIMI

[2020-07-29 13:11:29:544_R:] AT+CIMI

[2020-07-29 13:11:29:544_R:] 405864064998876

[2020-07-29 13:11:29:544_R:] OK

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 13:11:38:040_S:] AT+CPIN?

[2020-07-29 13:11:38:109_R:] AT+CPIN?

[2020-07-29 13:11:38:109_R:] +CPIN: READY

[2020-07-29 13:11:38:109_R:] OK

/*Use AT+CEREG? to query current EPS Network Registration Status*/

[2020-07-29 13:11:38:109_S:] AT+CEREG?

[2020-07-29 13:11:38:171_R:] AT+CEREG?

[2020-07-29 13:11:38:171_R:] +CEREG: 0,1

[2020-07-29 13:11:38:171_R:] OK

/* use AT+CSQ to query current signal quality */

[2020-07-29 13:11:38:225_S:] AT+CSQ

[2020-07-29 13:11:38:287_R:] AT+CSQ

[2020-07-29 13:11:38:287_R:] +CSQ: 31,99

[2020-07-29 13:11:38:287_R:] OK

/* use AT+CREG? /AT+CGREG? to query the network registration status, if the return value is [0,1] or [0,5], it is successfully registered, other value is fail to register */

[2020-07-29 13:11:38:294_S:] AT+CREG?

[2020-07-29 13:11:38:356_R:] AT+CREG?

[2020-07-29 13:11:38:356_R:] +CREG: 0,1

[2020-07-29 13:11:38:356_R:] OK

[2020-07-29 13:11:38:356_S:] AT+CGREG?

[2020-07-29 13:11:38:425_R:] AT+CGREG?

[2020-07-29 13:11:38:425_R:] +CGREG: 0,1

[2020-07-29 13:11:38:425_R:] OK

/* Use ATD<number>; to dial up */

[2020-07-29 13:11:42:855_S:] ATD982xxxxxxx2;

[2020-07-29 13:11:42:925_R:] ATD982xxxxxxx2;

```

[2020-07-29 13:11:42:925_R:] OK

[2020-07-29 13:11:43:025_R:] NO CARRIER
[2020-07-29 13:11:45:934_S:] AT+CLCC
[2020-07-29 13:11:45:997_R:] AT+CLCC
[2020-07-29 13:11:45:997_R:] +CLCC: 1,1,0,1,0,"",128
[2020-07-29 13:11:45:997_R:] +CLCC: 2,1,0,1,0,"",128

[2020-07-29 13:11:45:997_R:] OK

/* Use ATD<number>; to dial up */
[2020-07-29 13:12:01:019_S:] ATD982xxxxxxx2;
[2020-07-29 13:12:01:088_R:] ATD982xxxxxxx2;
[2020-07-29 13:12:01:088_R:] OK

[2020-07-29 13:12:01:088_R:] NO CARRIER
[2020-07-29 13:12:04:116_S:] AT+CLCC
[2020-07-29 13:12:04:199_R:] AT+CLCC
[2020-07-29 13:12:04:199_R:] +CLCC: 1,1,0,1,0,"",128

[2020-07-29 13:12:04:199_R:] OK

/* Use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or
unlocked */
[2020-07-29 13:12:04:277_S:] AT+CPIN?
[2020-07-29 13:12:04:346_R:] AT+CPIN?
[2020-07-29 13:12:04:346_R:] +CPIN: READY

[2020-07-29 13:12:04:346_R:] OK

/* Use AT+CSQ to query current signal quality */
[2020-07-29 13:12:04:346_S:] AT+CSQ
[2020-07-29 13:12:04:415_R:] AT+CSQ
[2020-07-29 13:12:04:415_R:] +CSQ: 31,99

[2020-07-29 13:12:04:415_R:] OK

/* Use AT+CREG? /AT+CGREG? to query the network registration status. */
[2020-07-29 13:12:04:415_S:] AT+CREG?
[2020-07-29 13:12:04:477_R:] AT+CREG?
[2020-07-29 13:12:04:477_R:] +CREG: 0,3

[2020-07-29 13:12:04:477_R:] OK
[2020-07-29 13:12:04:477_S:] AT+CGREG?
[2020-07-29 13:12:04:546_R:] AT+CGREG?
[2020-07-29 13:12:04:546_R:] +CGREG: 0,1

[2020-07-29 13:12:04:546_R:] OK

/* Use AT+COPS? to query current Network Operator */

```

[2020-07-29 13:12:04:546_S:] AT+COPS?
[2020-07-29 13:12:04:615_R:] AT+COPS?
[2020-07-29 13:12:04:615_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:12:04:615_R:] OK

/* Use AT+QCCID to query ICCID number of SIM card */

[2020-07-29 13:12:05:903_S:] AT+QCCID
[2020-07-29 13:12:05:982_R:] AT+QCCID
[2020-07-29 13:12:05:982_R:] +QCCID: 89918640400232181128

[2020-07-29 13:12:05:982_R:] OK

/* Use AT+CIMI to query the IMSI of SIM card */

[2020-07-29 13:12:06:205_S:] AT+CIMI
[2020-07-29 13:12:06:267_R:] AT+CIMI
[2020-07-29 13:12:06:267_R:] 405864064998876

[2020-07-29 13:12:06:267_R:] OK

/* use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked or unlocked */

[2020-07-29 13:12:07:872_S:] AT+CPIN?
[2020-07-29 13:12:07:941_R:] AT+CPIN?
[2020-07-29 13:12:07:941_R:] +CPIN: READY

[2020-07-29 13:12:07:941_R:] OK

/*Use AT+CEREG? to query current EPS Network Registration Status*/

[2020-07-29 13:12:07:941_S:] AT+CEREG?
[2020-07-29 13:12:08:010_R:] AT+CEREG?
[2020-07-29 13:12:08:010_R:] +CEREG: 0,1

[2020-07-29 13:12:08:010_R:] OK

/* use AT+CSQ to query current signal quality */

[2020-07-29 13:12:08:057_S:] AT+CSQ
[2020-07-29 13:12:08:126_R:] AT+CSQ
[2020-07-29 13:12:08:126_R:] +CSQ: 31,99

[2020-07-29 13:12:08:126_R:] OK

/* use AT+CREG? /AT+CGREG? to query the network registration status, if the return value is [0,1] or [0,5], it is successfully registered, other value is fail to register */

[2020-07-29 13:12:08:126_S:] AT+CREG?
[2020-07-29 13:12:08:188_R:] AT+CREG?
[2020-07-29 13:12:08:188_R:] +CREG: 0,3

[2020-07-29 13:12:08:188_R:] OK

```
[2020-07-29 13:12:08:188_S:] AT+CGREG?  
[2020-07-29 13:12:08:257_R:] AT+CGREG?  
[2020-07-29 13:12:08:257_R:] +CGREG: 0,1
```

```
[2020-07-29 13:12:08:257_R:] OK
```

```
/* use AT+CREG? /AT+CGREG? to query the network registration status, if the return  
value is [0,1] or [0,5], it is successfully registered, other value is fail to  
register */
```

```
[2020-07-29 13:12:09:261_S:] AT+CREG?  
[2020-07-29 13:12:09:330_R:] AT+CREG?  
[2020-07-29 13:12:09:330_R:] +CREG: 0,3
```

```
[2020-07-29 13:12:09:330_R:] OK  
[2020-07-29 13:12:09:330_S:] AT+CGREG?  
[2020-07-29 13:12:09:393_R:] AT+CGREG?  
[2020-07-29 13:12:09:393_R:] +CGREG: 0,1
```

```
[2020-07-29 13:12:09:393_R:] OK
```

```
/* Make sure the Antenna is connected and the network is normal */
```

```
/* Use ATD<number>; to dial up */
```

```
[2020-07-29 13:12:12:372_S:] ATD982xxxxxxx2;  
[2020-07-29 13:12:12:441_R:] ATD982xxxxxxx2;  
[2020-07-29 13:12:12:441_R:] OK
```

```
[2020-07-29 13:12:12:441_R:] NO CARRIER  
[2020-07-29 13:12:15:451_S:] AT+CLCC  
[2020-07-29 13:12:15:514_R:] AT+CLCC  
[2020-07-29 13:12:15:514_R:] +CLCC: 1,1,0,1,0,"",128
```

```
[2020-07-29 13:12:15:514_R:] OK  
[2020-07-29 13:12:18:461_S:] ATH  
[2020-07-29 13:12:18:523_R:] ATH  
[2020-07-29 13:12:18:523_R:] OK
```