

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

[2020-07-29 13:13:43:160_S:] AT+CPIN?

[2020-07-29 13:13:43:239_R:] AT+CPIN?

[2020-07-29 13:13:43:239_R:] +CPIN: READY

[2020-07-29 13:13:43:239_R:] OK

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

[2020-07-29 13:13:43:241_S:] AT+CEREG?

[2020-07-29 13:13:43:310_R:] AT+CEREG?

[2020-07-29 13:13:43:310_R:] +CEREG: 0,1

[2020-07-29 13:13:43:310_R:] OK

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

[2020-07-29 13:13:43:350_S:] AT+CSQ

[2020-07-29 13:13:43:410_R:] AT+CSQ

[2020-07-29 13:13:43:410_R:] +CSQ: 31,99

[2020-07-29 13:13:43:410_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 13:13:43:411_S:] AT+CREG?

[2020-07-29 13:13:43:469_R:] AT+CREG?

[2020-07-29 13:13:43:469_R:] +CREG: 0,3

[2020-07-29 13:13:43:469_R:] OK

[2020-07-29 13:13:43:470_S:] AT+CGREG?

[2020-07-29 13:13:43:529_R:] AT+CGREG?

[2020-07-29 13:13:43:529_R:] +CGREG: 0,1

[2020-07-29 13:13:43:529_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 13:13:44:542_S:] AT+CREG?

[2020-07-29 13:13:44:610_R:] AT+CREG?

[2020-07-29 13:13:44:610_R:] +CREG: 0,3

[2020-07-29 13:13:44:610_R:] OK

[2020-07-29 13:13:44:611_S:] AT+CGREG?

[2020-07-29 13:13:44:670_R:] AT+CGREG?

[2020-07-29 13:13:44:670_R:] +CGREG: 0,1

[2020-07-29 13:13:44:670_R:] OK

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

/* Use ATE0 to disable echo mode */

```
[2020-07-29 13:13:53:604_S:] ATE0
[2020-07-29 13:13:53:682_R:] ATE0
[2020-07-29 13:13:53:682_R:] OK
```

```
/* Use ATV0 to set the response format */
```

```
[2020-07-29 13:13:53:704_S:] ATV0
[2020-07-29 13:13:53:767_R:] 0
```

```
/* Use AT+CGDCONT=1,"IP","xxx" to define a PDP context where CID=1, PDP type=
IP, APN=xxx (xxx is the APN for the network provider China-Mobile and it should
be replaced with the APN by your network provider) */
```

```
[2020-07-29 13:13:53:782_S:] AT+CGDCONT=1,"IP","JIONET"
[2020-07-29 13:13:53:867_R:] 30 0D
```

```
/* Use ATD*99# to dial up with defined PDP context */
```

```
[2020-07-29 13:13:53:883_S:] ATD*99#
[2020-07-29 13:13:53:955_R:] 31 0D
```

```
/* After this row will be into the process of negotiations */
```

```
/* The sent and received data below will be hexadecimal mode except the
information of the status about port pins */
```

```
/* The period of negotiation in LCP */
```

```
[2020-07-29 13:13:56:976_S:] 7E FF 7D 23 C0 21 7D 21 7D 21 7D 20 7D 2A 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 97 32 44 7D 27
```

```
[2020-07-29 13:13:56:976_R:] DSR:0 CTS:0 RI:0 (DCD:1)
```

```
[2020-07-29 13:13:57:045_R:] 7E FF 7D 23 C0 21 7D 21 7D 20 7D 20 7D 39 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 97 32 44 7D 27
7D 22 7D 28 7D 22 DA 80 7E 7E FF 7D 23 C0 21 7D 22 7D 21 7D 20 7D 2A 7D 22 7D 26
7D 20 7D 20 7D 20 7D 20 31 7D 2F 7E
```

```
[2020-07-29 13:13:57:045_S:] 7E FF 7D 23 C0 21 7D 24 7D 20 7D 20 7D 28 7D 27 7D
22 7D 28 7D 22 2D DB 7E
```

```
[2020-07-29 13:13:57:114_R:] 7E FF 7D 23 C0 21 7D 21 7D 21 7D 20 7D 35 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 97 32 44 3A 73
7E
```

```
[2020-07-29 13:13:57:114_S:] 7E FF 7D 23 C0 21 7D 23 7D 21 7D 20 7D 28 7D 23 7D
24 C0 23 22 48 7E
```

```
[2020-07-29 13:13:57:177_R:] 7E FF 7D 23 C0 21 7D 21 7D 22 7D 20 7D 34 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 24 C0 23 7D 25 7D 26 D9 97 32 44 32 7D 3F 7E
```

```
[2020-07-29 13:13:57:177_S:] 7E FF 7D 23 C0 21 7D 22 7D 22 7D 20 7D 34 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 24 C0 23 7D 25 7D 26 D9 97 32 44 D9 76 7E
```

```
/* The period of authentication user in PAP */
```

```
[2020-07-29 13:13:57:177_S:] 7E FF 03 C0 23 01 02 00 06 00 00 4D 34 7E
```

```
[2020-07-29 13:13:57:246_R:] 7E FF 7D 23 C0 21 7D 2B 7D 23 7D 20 7D 28 D9 97 32
44 EF 48 7E
```

```
[2020-07-29 13:13:57:315_R:] 7E FF 03 C0 23 02 02 00 05 00 46 1E 7E
```

```
/* The period of negotiation in NCP - 2*/
```

```
[2020-07-29 13:14:00:323_S:] 7E FF 03 80 21 01 03 00 16 03 06 00 00 00 00 81 06
00 00 00 00 83 06 00 00 00 00 B6 B5 7E
```

```
[2020-07-29 13:14:00:407_R:] 7E FF 03 80 21 01 00 00 04 DC ED 7E 7E FF 03 80 21
04 03 00 0A 83 06 00 00 00 00 F0 2A 7E
```

```
[2020-07-29 13:14:00:407_S:] 7E FF 03 80 21 02 00 00 04 11 C8 7E
[2020-07-29 13:14:01:394_R:] 7E FF 03 80 21 01 01 00 04 00 B7 7E
[2020-07-29 13:14:01:396_S:] 7E FF 03 80 21 02 01 00 04 CD 92 7E
[2020-07-29 13:14:02:395_R:] 7E FF 03 80 21 01 02 00 04 64 58 7E
```

```
/* Switch to command mode */
```

```
[2020-07-29 13:14:03:248_S:] +++~ÿ!  , ~ÿ!  %Ž~3
```

```
/* Force to interrupt the PPP dial */
```

```
[2020-07-29 13:14:08:272_S:] ATH
```

```
[2020-07-29 13:14:08:287_R:] DSR:0 CTS:0 RI:0 (DCD:0)
```

```
[2020-07-29 13:14:08:351_R:] 0
```

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

```
[2020-07-29 13:14:08:370_S:] ATE1
```

```
[2020-07-29 13:14:08:433_R:] 0
```

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

```
[2020-07-29 13:14:08:982_S:] ATV1
```

```
[2020-07-29 13:14:09:041_R:] ATV1
```

```
[2020-07-29 13:14:09:041_R:] OK
```

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

```
[2020-07-29 13:16:30:355_S:] AT+CPIN?
```

```
[2020-07-29 13:16:30:433_R:] AT+CPIN?
```

```
[2020-07-29 13:16:30:433_R:] +CPIN: READY
```

```
[2020-07-29 13:16:30:433_R:] OK
```

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

```
[2020-07-29 13:16:30:433_S:] AT+CSQ
```

```
[2020-07-29 13:16:30:502_R:] AT+CSQ
```

```
[2020-07-29 13:16:30:502_R:] +CSQ: 31,99
```

```
[2020-07-29 13:16:30:502_R:] OK
```

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

```
[2020-07-29 13:16:30:502_S:] AT+CREG?
```

```
[2020-07-29 13:16:30:571_R:] AT+CREG?
```

```
[2020-07-29 13:16:30:571_R:] +CREG: 0,3
```

```
[2020-07-29 13:16:30:571_R:] OK
```

```
[2020-07-29 13:16:30:571_S:] AT+CGREG?
```

```
[2020-07-29 13:16:30:634_R:] AT+CGREG?
```

```
[2020-07-29 13:16:30:634_R:] +CGREG: 0,1
```

```
[2020-07-29 13:16:30:634_R:] OK
```

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

```
[2020-07-29 13:16:30:634_S:] AT+COPS?
```

```
[2020-07-29 13:16:30:703_R:] AT+COPS?
```

```
[2020-07-29 13:16:30:703_R:] +COPS: 0,0,"Jio 4G Jio 4G",7
```

```
[2020-07-29 13:16:30:703_R:] OK
```

```
/* Use AT+QCCID to query ICCID number of SIM card */  
[2020-07-29 13:16:31:236_S:] AT+QCCID  
[2020-07-29 13:16:31:305_R:] AT+QCCID  
[2020-07-29 13:16:31:305_R:] +QCCID: 89918640400232181128
```

```
[2020-07-29 13:16:31:305_R:] OK
```

```
/* Use AT+CIMI to query the IMSI of SIM card */  
[2020-07-29 13:16:31:521_S:] AT+CIMI  
[2020-07-29 13:16:31:590_R:] AT+CIMI  
[2020-07-29 13:16:31:590_R:] 405864064998876
```

```
[2020-07-29 13:16:31:590_R:] OK
```

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

```
[2020-07-29 13:16:32:895_S:] AT+CPIN?  
[2020-07-29 13:16:32:957_R:] AT+CPIN?  
[2020-07-29 13:16:32:957_R:] +CPIN: READY
```

```
[2020-07-29 13:16:32:957_R:] OK
```

```
/* Use AT+CSQ to query current signal quality */  
[2020-07-29 13:16:32:957_S:] AT+CSQ  
[2020-07-29 13:16:33:026_R:] AT+CSQ  
[2020-07-29 13:16:33:026_R:] +CSQ: 31,99
```

```
[2020-07-29 13:16:33:026_R:] OK
```

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

```
[2020-07-29 13:16:33:026_S:] AT+CREG?  
[2020-07-29 13:16:33:097_R:] AT+CREG?  
[2020-07-29 13:16:33:097_R:] +CREG: 0,3
```

```
[2020-07-29 13:16:33:097_R:] OK  
[2020-07-29 13:16:33:097_S:] AT+CGREG?  
[2020-07-29 13:16:33:159_R:] AT+CGREG?  
[2020-07-29 13:16:33:159_R:] +CGREG: 0,1
```

```
[2020-07-29 13:16:33:159_R:] OK
```

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

```
[2020-07-29 13:16:33:164_S:] AT+COPS?  
[2020-07-29 13:16:33:227_R:] AT+COPS?  
[2020-07-29 13:16:33:227_R:] +COPS: 0,0,"Jio 4G Jio 4G",7
```

```
[2020-07-29 13:16:33:227_R:] OK
```

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

```
[2020-07-29 13:16:33:829_S:] AT+CPIN?  
[2020-07-29 13:16:33:898_R:] AT+CPIN?  
[2020-07-29 13:16:33:898_R:] +CPIN: READY
```

[2020-07-29 13:16:33:898_R:] OK

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

[2020-07-29 13:16:33:898_S:] AT+CSQ

[2020-07-29 13:16:33:960_R:] AT+CSQ

[2020-07-29 13:16:33:960_R:] +CSQ: 31,99

[2020-07-29 13:16:33:960_R:] OK

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

[2020-07-29 13:16:33:960_S:] AT+CREG?

[2020-07-29 13:16:34:029_R:] AT+CREG?

[2020-07-29 13:16:34:029_R:] +CREG: 0,3

[2020-07-29 13:16:34:029_R:] OK

[2020-07-29 13:16:34:029_S:] AT+CGREG?

[2020-07-29 13:16:34:098_R:] AT+CGREG?

[2020-07-29 13:16:34:098_R:] +CGREG: 0,1

[2020-07-29 13:16:34:098_R:] OK

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

[2020-07-29 13:16:34:098_S:] AT+COPS?

[2020-07-29 13:16:34:167_R:] AT+COPS?

[2020-07-29 13:16:34:167_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:16:34:167_R:] OK

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

[2020-07-29 13:16:34:647_S:] AT+CPIN?

[2020-07-29 13:16:34:716_R:] AT+CPIN?

[2020-07-29 13:16:34:716_R:] +CPIN: READY

[2020-07-29 13:16:34:716_R:] OK

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

[2020-07-29 13:16:34:716_S:] AT+CSQ

[2020-07-29 13:16:34:785_R:] AT+CSQ

[2020-07-29 13:16:34:785_R:] +CSQ: 31,99

[2020-07-29 13:16:34:785_R:] OK

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

[2020-07-29 13:16:34:785_S:] AT+CREG?

[2020-07-29 13:16:34:847_R:] AT+CREG?

[2020-07-29 13:16:34:847_R:] +CREG: 0,3

[2020-07-29 13:16:34:847_R:] OK

[2020-07-29 13:16:34:847_S:] AT+CGREG?

[2020-07-29 13:16:34:916_R:] AT+CGREG?

[2020-07-29 13:16:34:916_R:] +CGREG: 0,1

[2020-07-29 13:16:34:916_R:] OK

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

[2020-07-29 13:16:34:916_S:] AT+COPS?

[2020-07-29 13:16:34:985_R:] AT+COPS?

[2020-07-29 13:16:34:985_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:16:34:985_R:] OK

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

[2020-07-29 13:16:52:377_S:] AT+CPIN?

[2020-07-29 13:16:52:446_R:] AT+CPIN?

[2020-07-29 13:16:52:446_R:] +CPIN: READY

[2020-07-29 13:16:52:446_R:] OK

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

[2020-07-29 13:16:52:446_S:] AT+CSQ

[2020-07-29 13:16:52:509_R:] AT+CSQ

[2020-07-29 13:16:52:509_R:] +CSQ: 31,99

[2020-07-29 13:16:52:509_R:] OK

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

[2020-07-29 13:16:52:509_S:] AT+CREG?

[2020-07-29 13:16:52:578_R:] AT+CREG?

[2020-07-29 13:16:52:578_R:] +CREG: 0,3

[2020-07-29 13:16:52:578_R:] OK

[2020-07-29 13:16:52:578_S:] AT+CGREG?

[2020-07-29 13:16:52:647_R:] AT+CGREG?

[2020-07-29 13:16:52:647_R:] +CGREG: 0,1

[2020-07-29 13:16:52:647_R:] OK

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

[2020-07-29 13:16:52:647_S:] AT+COPS?

[2020-07-29 13:16:52:709_R:] AT+COPS?

[2020-07-29 13:16:52:709_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:16:52:709_R:] OK

/* 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 13:19:34:279_S:] AT

[2020-07-29 13:19:34:364_R:] AT

[2020-07-29 13:19:34:364_R:] OK

[2020-07-29 13:19:34:379_S:] ATI

[2020-07-29 13:19:34:442_R:] ATI

[2020-07-29 13:19:34:442_R:] Quectel

[2020-07-29 13:19:34:442_R:] EG25

[2020-07-29 13:19:34:442_R:] Revision: EG25GGBR07A04M2G

[2020-07-29 13:19:34:442_R:] OK
[2020-07-29 13:19:34:464_S:] ATI
[2020-07-29 13:19:34:527_R:] ATI
[2020-07-29 13:19:34:527_R:] Quectel
[2020-07-29 13:19:34:527_R:] EG25
[2020-07-29 13:19:34:527_R:] Revision: EG25GGBR07A04M2G

[2020-07-29 13:19:34:527_R:] OK

/* Use ATV1 to set the response format */

[2020-07-29 13:19:34:542_S:] ATV1
[2020-07-29 13:19:34:611_R:] ATV1
[2020-07-29 13:19:34:611_R:] OK

/* Use ATE1 to enable echo mode */

[2020-07-29 13:19:34:865_S:] ATE1
[2020-07-29 13:19:34:943_R:] ATE1
[2020-07-29 13:19:34:943_R:] OK

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

[2020-07-29 13:19:35:097_S:] AT+CMEE=2
[2020-07-29 13:19:35:165_R:] AT+CMEE=2
[2020-07-29 13:19:35:165_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 13:19:35:413_S:] AT+IPR?
[2020-07-29 13:19:35:482_R:] AT+IPR?
[2020-07-29 13:19:35:482_R:] +IPR: 115200

[2020-07-29 13:19:35:482_R:] OK

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

[2020-07-29 13:19:35:529_S:] ATI
[2020-07-29 13:19:35:598_R:] ATI
[2020-07-29 13:19:35:598_R:] Quectel
[2020-07-29 13:19:35:598_R:] EG25
[2020-07-29 13:19:35:598_R:] Revision: EG25GGBR07A04M2G

[2020-07-29 13:19:35:598_R:] OK

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

[2020-07-29 13:19:35:714_S:] AT+GSN
[2020-07-29 13:19:35:783_R:] AT+GSN
[2020-07-29 13:19:35:783_R:] 867698040001383

[2020-07-29 13:19:35:783_R:] OK

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

[2020-07-29 13:19:39:294_S:] AT+CPIN?
[2020-07-29 13:19:39:357_R:] AT+CPIN?
[2020-07-29 13:19:39:357_R:] +CPIN: READY

[2020-07-29 13:19:39:357_R:] OK

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

[2020-07-29 13:19:41:201_S:] AT+CPIN?
[2020-07-29 13:19:41:272_R:] AT+CPIN?
[2020-07-29 13:19:41:272_R:] +CPIN: READY

[2020-07-29 13:19:41:272_R:] OK

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

[2020-07-29 13:19:41:272_S:] AT+CSQ
[2020-07-29 13:19:41:332_R:] AT+CSQ
[2020-07-29 13:19:41:332_R:] +CSQ: 31,99

[2020-07-29 13:19:41:332_R:] OK

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

[2020-07-29 13:19:41:333_S:] AT+CREG?
[2020-07-29 13:19:41:392_R:] AT+CREG?
[2020-07-29 13:19:41:392_R:] +CREG: 0,1

[2020-07-29 13:19:41:392_R:] OK
[2020-07-29 13:19:41:394_S:] AT+CGREG?
[2020-07-29 13:19:41:452_R:] AT+CGREG?
[2020-07-29 13:19:41:452_R:] +CGREG: 0,1

[2020-07-29 13:19:41:452_R:] OK

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

[2020-07-29 13:19:41:454_S:] AT+COPS?
[2020-07-29 13:19:41:532_R:] AT+COPS?
[2020-07-29 13:19:41:532_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:19:41:532_R:] OK

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

[2020-07-29 13:19:42:065_S:] AT+QCCID
[2020-07-29 13:19:42:142_R:] AT+QCCID
[2020-07-29 13:19:42:142_R:] +QCCID: 89918640400232181128

[2020-07-29 13:19:42:142_R:] OK

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

[2020-07-29 13:19:42:366_S:] AT+CIMI
[2020-07-29 13:19:42:436_R:] AT+CIMI
[2020-07-29 13:19:42:436_R:] 405864064998876

[2020-07-29 13:19:42:436_R:] OK

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

[2020-07-29 13:19:43:870_S:] AT+CPIN?

[2020-07-29 13:19:43:948_R:] AT+CPIN?

[2020-07-29 13:19:43:948_R:] +CPIN: READY

[2020-07-29 13:19:43:948_R:] OK

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

[2020-07-29 13:19:43:948_S:] AT+CEREG?

[2020-07-29 13:19:44:017_R:] AT+CEREG?

[2020-07-29 13:19:44:017_R:] +CEREG: 0,1

[2020-07-29 13:19:44:017_R:] OK

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

[2020-07-29 13:19:44:070_S:] AT+CSQ

[2020-07-29 13:19:44:133_R:] AT+CSQ

[2020-07-29 13:19:44:133_R:] +CSQ: 31,99

[2020-07-29 13:19:44:133_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 13:19:44:133_S:] AT+CREG?

[2020-07-29 13:19:44:202_R:] AT+CREG?

[2020-07-29 13:19:44:202_R:] +CREG: 0,1

[2020-07-29 13:19:44:202_R:] OK

[2020-07-29 13:19:44:202_S:] AT+CGREG?

[2020-07-29 13:19:44:264_R:] AT+CGREG?

[2020-07-29 13:19:44:264_R:] +CGREG: 0,1

[2020-07-29 13:19:44:264_R:] OK

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

[2020-07-29 13:19:45:352_S:] ATD982xxxxxxx2;

[2020-07-29 13:19:45:421_R:] ATD982xxxxxxx2;

[2020-07-29 13:19:45:421_R:] OK

[2020-07-29 13:19:45:537_R:] NO CARRIER

[2020-07-29 13:19:48:100_S:] ATH

[2020-07-29 13:19:48:162_R:] ATH

[2020-07-29 13:19:48:162_R:] OK

[2020-07-29 13:19:48:432_S:] AT+CLCC

[2020-07-29 13:19:48:501_R:] AT+CLCC

[2020-07-29 13:19:48:501_R:] +CLCC: 1,1,0,1,0,"",128

[2020-07-29 13:19:48:501_R:] OK

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

[2020-07-29 13:19:50:368_S:] AT+CPIN?

[2020-07-29 13:19:50:437_R:] AT+CPIN?
[2020-07-29 13:19:50:437_R:] +CPIN: READY

[2020-07-29 13:19:50:437_R:] OK

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

[2020-07-29 13:19:50:437_S:] AT+CEREG?
[2020-07-29 13:19:50:506_R:] AT+CEREG?
[2020-07-29 13:19:50:506_R:] +CEREG: 0,1

[2020-07-29 13:19:50:506_R:] OK

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

[2020-07-29 13:19:50:553_S:] AT+CSQ
[2020-07-29 13:19:50:622_R:] AT+CSQ
[2020-07-29 13:19:50:622_R:] +CSQ: 31,99

[2020-07-29 13:19:50:622_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 13:19:50:622_S:] AT+CREG?
[2020-07-29 13:19:50:707_R:] AT+CREG?
[2020-07-29 13:19:50:707_R:] +CREG: 0,3

[2020-07-29 13:19:50:707_R:] OK

[2020-07-29 13:19:50:707_S:] AT+CGREG?
[2020-07-29 13:19:50:769_R:] AT+CGREG?
[2020-07-29 13:19:50:769_R:] +CGREG: 0,1

[2020-07-29 13:19:50:769_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 13:19:51:772_S:] AT+CREG?
[2020-07-29 13:19:51:841_R:] AT+CREG?
[2020-07-29 13:19:51:841_R:] +CREG: 0,3

[2020-07-29 13:19:51:841_R:] OK

[2020-07-29 13:19:51:841_S:] AT+CGREG?
[2020-07-29 13:19:51:910_R:] AT+CGREG?
[2020-07-29 13:19:51:910_R:] +CGREG: 0,1

[2020-07-29 13:19:51:910_R:] OK

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

/* Use ATE0 to disable echo mode */

[2020-07-29 13:19:58:465_S:] ATE0
[2020-07-29 13:19:58:534_R:] ATE0
[2020-07-29 13:19:58:534_R:] OK

```

/* Use ATV0 to set the response format */
[2020-07-29 13:19:58:549_S:] ATV0
[2020-07-29 13:19:58:612_R:] 0
/* Use AT+CGDCONT=1,"IP","xxx" to define a PDP context where CID=1, PDP type=
IP, APN=xxx (xxx is the APN for the network provider China-Mobile and it should
be replaced with the APN by your network provider) */
[2020-07-29 13:19:58:634_S:] AT+CGDCONT=1,"IP","JIONET"
[2020-07-29 13:19:58:712_R:] 30 0D

/* Use ATD*99# to dial up with defined PDP context */
[2020-07-29 13:19:58:734_S:] ATD*99#
[2020-07-29 13:19:58:813_R:] 31 0D

/* After this row will be into the process of negotiations */

/* The sent and received data below will be hexadecimal mode except the
information of the status about port pins */

/* The period of negotiation in LCP */
[2020-07-29 13:20:01:822_S:] 7E FF 7D 23 C0 21 7D 21 7D 21 7D 20 7D 2A 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 9C C2 BF 7D 27
7D 22 7D 28 7D 22 B1 EE 7E 7E FF 7D 23 C0 21 7D 22 7D 21 7D 20 7D 2A 7D 22 7D 26
7D 20 7D 20 7D 20 7D 20 31 7D 2F 7E
[2020-07-29 13:20:01:822_R:] DSR:0 CTS:0 RI:0 (DCD:1)
[2020-07-29 13:20:01:887_R:] 7E FF 7D 23 C0 21 7D 21 7D 20 7D 20 7D 39 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 9C C2 BF 7D 27
7D 22 7D 28 7D 22 B1 EE 7E 7E FF 7D 23 C0 21 7D 22 7D 21 7D 20 7D 2A 7D 22 7D 26
7D 20 7D 20 7D 20 7D 20 31 7D 2F 7E
[2020-07-29 13:20:01:889_S:] 7E FF 7D 23 C0 21 7D 24 7D 20 7D 20 7D 28 7D 27 7D
22 7D 28 7D 22 2D DB 7E
[2020-07-29 13:20:01:960_R:] 7E FF 7D 23 C0 21 7D 21 7D 21 7D 20 7D 35 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 25 C2 23 7D 25 7D 25 7D 26 D9 9C C2 BF C8 6F
7E
[2020-07-29 13:20:01:960_S:] 7E FF 7D 23 C0 21 7D 23 7D 21 7D 20 7D 28 7D 23 7D
24 C0 23 22 48 7E
[2020-07-29 13:20:02:023_R:] 7E FF 7D 23 C0 21 7D 21 7D 22 7D 20 7D 34 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 24 C0 23 7D 25 7D 26 D9 9C C2 BF C0 7D 23 7E
[2020-07-29 13:20:02:023_S:] 7E FF 7D 23 C0 21 7D 22 7D 22 7D 20 7D 34 7D 22 7D
26 7D 20 7D 20 7D 20 7D 20 7D 23 7D 24 C0 23 7D 25 7D 26 D9 9C C2 BF 2B 6A 7E

/* The period of authentication user in PAP */
[2020-07-29 13:20:02:023_S:] 7E FF 03 C0 23 01 02 00 06 00 00 4D 34 7E
[2020-07-29 13:20:02:092_R:] 7E FF 7D 23 C0 21 7D 2B 7D 23 7D 20 7D 28 D9 9C C2
BF 7D 3D 54 7E
[2020-07-29 13:20:02:154_R:] 7E FF 03 C0 23 02 02 00 05 00 46 1E 7E

/* The period of negotiation in NCP - 2*/
[2020-07-29 13:20:05:171_S:] 7E FF 03 80 21 01 03 00 16 03 06 00 00 00 00 81 06
00 00 00 00 83 06 00 00 00 00 B6 B5 7E
[2020-07-29 13:20:05:249_R:] 7E FF 03 80 21 01 00 00 04 DC ED 7E 7E FF 03 80 21
04 03 00 0A 83 06 00 00 00 00 F0 2A 7E
[2020-07-29 13:20:05:249_S:] 7E FF 03 80 21 02 00 00 04 11 C8 7E
[2020-07-29 13:20:06:246_R:] 7E FF 03 80 21 01 01 00 04 00 B7 7E
[2020-07-29 13:20:06:248_S:] 7E FF 03 80 21 02 01 00 04 CD 92 7E
[2020-07-29 13:20:07:251_R:] 7E FF 03 80 21 01 02 00 04 64 58 7E

```

```
/* Switch to command mode */
[2020-07-29 13:20:07:351_S:] +++~ÿ!  , ~
[2020-07-29 13:20:08:630_R:] DSR:0 CTS:0 RI:0 (DCD:0)
[2020-07-29 13:20:08:691_R:] 3

/* Force to interrupt the PPP dial */
[2020-07-29 13:20:08:712_S:] ATH
[2020-07-29 13:20:08:871_R:] 0
/* Use ATE1 to enable echo mode */
[2020-07-29 13:20:08:901_S:] ATE1
[2020-07-29 13:20:08:971_R:] 0
/* Use ATV1 to set the response format */
[2020-07-29 13:20:09:463_S:] ATV1
[2020-07-29 13:20:09:532_R:] ATV1
[2020-07-29 13:20:09:532_R:] OK

/* Use AT+CPIN? to query the SIM card status : SIM card inserted or not, locked
or unlocked */
[2020-07-29 13:20:12:009_S:] AT+CPIN?
[2020-07-29 13:20:12:071_R:] AT+CPIN?
[2020-07-29 13:20:12:071_R:] +CPIN: READY

[2020-07-29 13:20:12:071_R:] OK

/* Use AT+CSQ to query current signal quality */
[2020-07-29 13:20:12:071_S:] AT+CSQ
[2020-07-29 13:20:12:141_R:] AT+CSQ
[2020-07-29 13:20:12:141_R:] +CSQ: 31,99

[2020-07-29 13:20:12:141_R:] OK

/* Use AT+CREG? /AT+CGREG? to query the network registration status. */
[2020-07-29 13:20:12:141_S:] AT+CREG?
[2020-07-29 13:20:12:203_R:] AT+CREG?
[2020-07-29 13:20:12:203_R:] +CREG: 0,3

[2020-07-29 13:20:12:203_R:] OK
[2020-07-29 13:20:12:203_S:] AT+CGREG?
[2020-07-29 13:20:12:272_R:] AT+CGREG?
[2020-07-29 13:20:12:272_R:] +CGREG: 0,1

[2020-07-29 13:20:12:272_R:] OK

/* Use AT+COPS? to query current Network Operator */
[2020-07-29 13:20:12:272_S:] AT+COPS?
[2020-07-29 13:20:12:341_R:] AT+COPS?
[2020-07-29 13:20:12:341_R:] +COPS: 0,0,"Jio 4G Jio 4G",7

[2020-07-29 13:20:12:341_R:] OK

/* Use AT+QCCID to query ICCID number of SIM card */
[2020-07-29 13:20:13:645_S:] AT+QCCID
[2020-07-29 13:20:13:708_R:] AT+QCCID
```

[2020-07-29 13:20:13:708_R:] +QCCID: 89918640400232181128

[2020-07-29 13:20:13:708_R:] OK

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

[2020-07-29 13:20:13:931_S:] AT+CIMI

[2020-07-29 13:20:13:993_R:] AT+CIMI

[2020-07-29 13:20:13:993_R:] 405864064998876

[2020-07-29 13:20:13:993_R:] OK