

4G DTU

4G DTU	MDM9X07	DTU	4G
CAT 4	RS232/485/422/TTL	DTU	
RS232			

- ✧ 4G
- ✧ CPS
- ✧ RS-232/485/422/TTL 1200bps-115200bps
- ✧ 3.81mm
- ✧ SIM
- ✧ 12-36V DC
- ✧ 150mA@12V
- ✧ -20~+70
- ✧ -40~+85
- ✧ 5~95%
- ✧ 5~95%
- ✧ 50 2M
- ✧ 4kV 4kV
- ✧ 600W
- ✧ 96×72×21±1mm

CPU	Cortex-A7 1.2GHz, ARMv7. Total 192 MIPS
FLASH	128MB
RAM	128MB

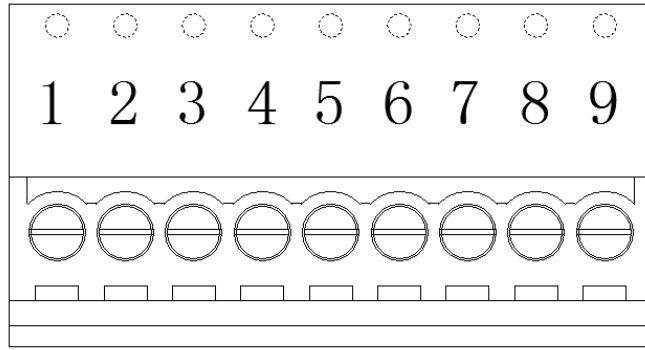
	LTE
	FDD-LTE TDD-LTE EVDO WCDMA TD-SCDMA CDMA1X GPRS/EDGE
	FDD-LTE 150Mbps(50Mbps() TDD-LTE 135Mbps(35Mbps() CDMA2000 1X EVDO RevA: 3.1Mbps(1.8Mbps() WCDMA 42Mbps(5.76Mbps() TD-SCDMA 4.2Mbps(2.2Mbps ()
	<23dBm
	<-93dBm

PWR			
DATA			
NET			

Reset

1

3



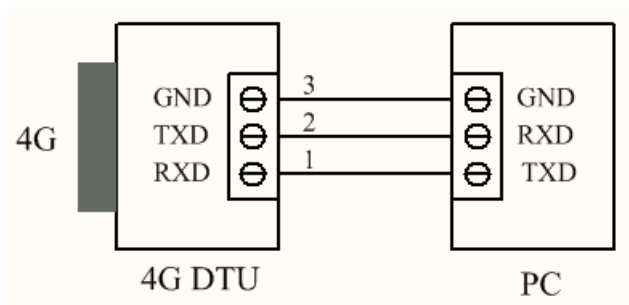
3.81-9pin

		RS232/485	RS422	TTL 3.3V
1	RXD	RS232	RS232	RS232
2	TXD	RS232	RS232	RS232
3	GND			
4	RXD	RS232	422 -	-
5	TXD	RS232	422 +	-
6	T/R-	RS485 B	422 -	TTL
7	T/R+	RS485 A	422 +	TTL
8	V+			
9	GND			

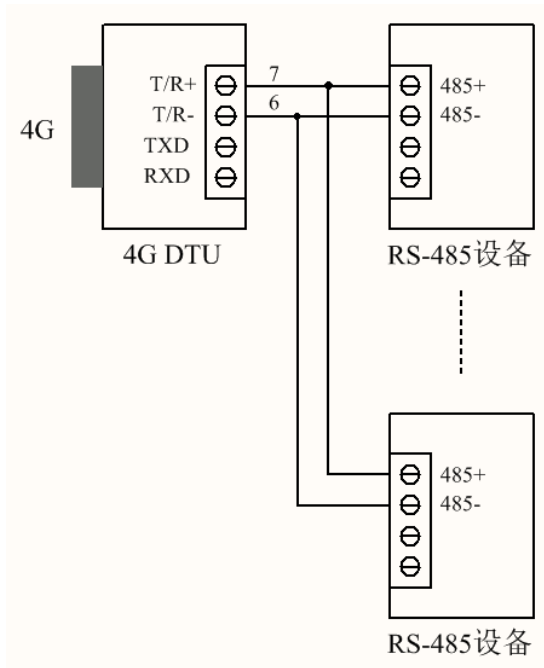
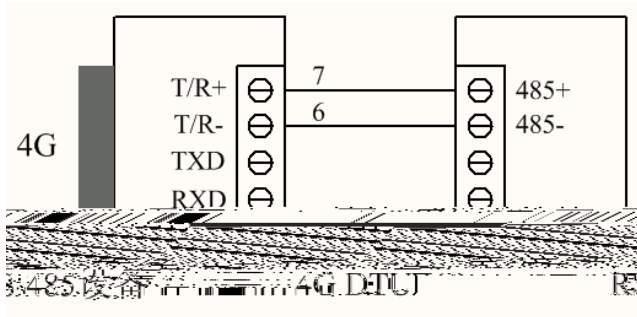
RS-232

8

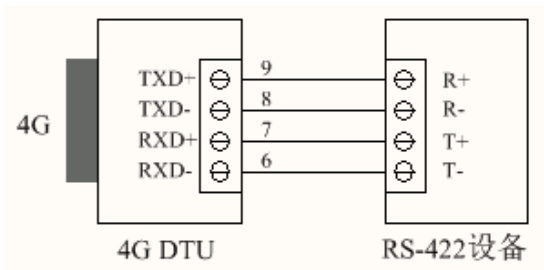
115200bps

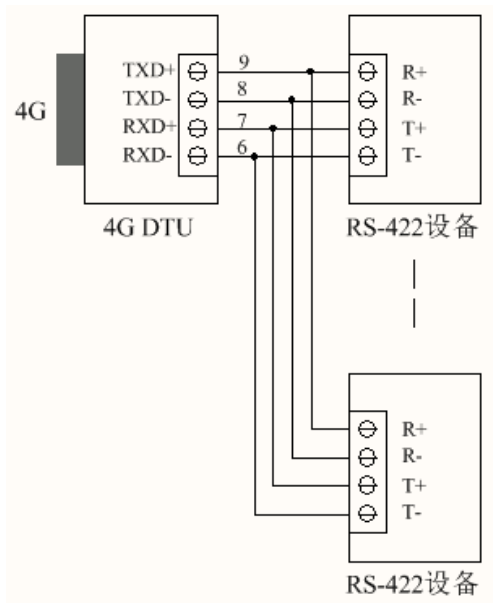


RS485

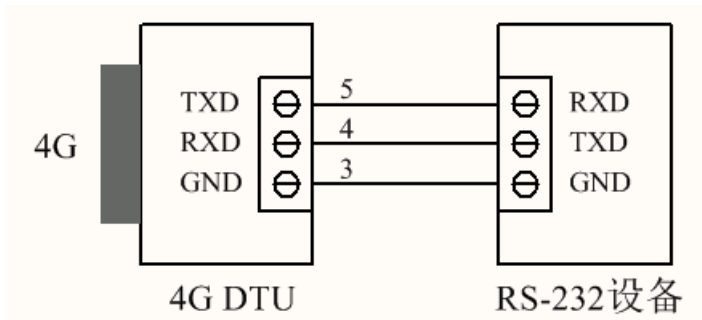


RS422





RS232



DTU

RS232

DTU

AT

AT	
AT+REBOOT	
AT+CSQ	
AT+SYSINFO	
AT+CLEAR	
AT+VER	
AT+IMEI	IMEI

AT+UARTSPEED	/
AT+UARTPARITY	/
AT+UARTDATA	/
AT+UARTSTOP	/
AT+UARTFT	/
AT+UARTFL	/
AT+SOCKTYPE	/
AT+SOCKSERVER	/ IP
AT+SOCKPORT	/
AT+SOCKEN	/ SOCK
AT+SOCKLK	SOCK
AT+REGEN	/
AT+REGTP	/
AT+REGDT	/
AT+REGSND	/
AT+REGFMT	/
AT+HEARTEN	/
AT+HEARSND	/
AT+HEARTTM	/
AT+HEARTDT	/
AT+HEARTFMT	/
AT+GPSEN	/ GPS
AT+GPSTIME	/ GPS
AT+GPSTYPE	/ GPS
AT+LBSEN	/ LBS
AT+LBSTIME	/ LBS
AT+LBSKEY	/ LBS
AT+GETPARAM	

AT



AT{CR}
 {CR}{LF}OK{CR}{LF}

AT+REBOOT



AT+R{CR}

{CR}{LF}OK{CR}{LF}

AT+ENTM



AT+ENTM{CR}
{CR}{LF}OK{CR}{LF}

AT+CSQ



AT+CSQ{CR}
{CR}{LF}+CSQ: rssi , , ber{CR}{LF}
{CR}{LF}OK{CR}{LF}

AT+SYSINFO



AT+SYSINFO{CR}
{CR}{LF}+SYSINFO: state, net{CR}{LF}
{CR}{LF}OK{CR}{LF}

state

0	
1	
2	

net

No Network	
GSM	GSM
CDMA	CDMA
WCDMA	WCDMA
TD-SCDMA	TD-SCDMA
LTE	LTE

AT+CLEAR



AT+CLEAR{CR}
{CR}{LF}OK{CR}{LF}

AT+VER



```
AT+VER{CR}
{CR}{LF}+VER: versi on{CR}{LF}
{CR}{LF}OK{CR}{LF}
```

AT+IMEI

IMEI



```
AT+IMEI {CR}
{CR}{LF}+IMEI : code{CR}{LF}
{CR}{LF}OK{CR}{LF}
```

AT+UARTSPEED

#



```
AT+UARTSPEED{CR}
{CR}{LF}+UARTSPEED: uartspeed{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+UARTSPEED=UARTSPEED{CR}
{CR}{LF}OK{CR}{LF}
```

UARTSPEED

```
1200
2400
4800
9600
19200
38400
57600
115200
230400
460800
921600
```

AT+UARTPARITY

#

◆
AT+UARTPARITY{CR}
{CR}{LF}+UARTPARITY: type{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+UARTPARITY=type{CR}
{CR}{LF}OK{CR}{LF}

type
n: None
e: Even
o: Odd

AT+UARTDATA

#

◆
AT+UARTDATA{CR}
{CR}{LF}+UARTDATA: type{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+UARTDATA=type{CR}
{CR}{LF}OK{CR}{LF}

type
7
8

AT+UARTSTOP

#

◆
AT+UARTSTOP{CR}
{CR}{LF}+UARTSTOP: type{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+UARTSTOP=type{CR}
{CR}{LF}OK{CR}{LF}

type
1
2

AT+UARTFT

#

◆
AT+UARTFT{CR}
{CR}{LF}+UARTFT: val ue{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+UARTFT=val ue{CR}
{CR}{LF}OK{CR}{LF}

val ue
50<=value<=60000

AT+UARTFL

#

◆
AT+UARTFL{CR}
{CR}{LF}+UARTFL: val ue{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+UARTFL=val ue{CR}
{CR}{LF}OK{CR}{LF}

val ue
1<=value<=1024

AT+SOCKTYPE

#

UDP/TCP

◆
AT+SOCKTYPE{CR}
{CR}{LF}+SOCKTYPE: type{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+SOCKTYPE=type{CR}
{CR}{LF}OK{CR}{LF}

type
TCP
UDP

AT+SOCKSERVER

IP

◆
AT+SOCKSERVER{CR}
{CR}{LF}+SOCKSERVER: i paddr{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+SOCKSERVER=i paddr{CR}
{CR}{LF}OK{CR}{LF}

i paddr

ip

AT+SOCKPORT

#

◆
AT+SOCKPORT{CR}
{CR}{LF}+SOCKPORT: port{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+SOCKPORT=port{CR}
{CR}{LF}OK{CR}{LF}

port

AT+SOCKEN

SOCK

◆
AT+SOCKEN{CR}
{CR}{LF}+SOCKEN: status{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+SOCKEN=status{CR}
{CR}{LF}OK{CR}{LF}

status

ON	
OFF	

AT+SOCKLK

SOCK



AT+SOCKLK{CR}
{CR}{LF}+SOCKLK: status{CR}{LF}
{CR}{LF}OK{CR}{LF}

status

ON	
OFF	

AT+REGEN

#



AT+REGEN{CR}
{CR}{LF}+REGEN: status{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+REGEN=status{CR}
{CR}{LF}OK{CR}{LF}

status

ON	
OFF	

AT+REGTP

#

IMEI /



AT+REGTP{CR}
{CR}{LF}+REGTP: type{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+REGTP=type{CR}
{CR}{LF}OK{CR}{LF}

type

IMEI	IMEI
USER_DEFINED	

AT+REGDT

#



AT+REGDT{CR}
{CR}{LF}+REGDT: info{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+REGDT=info{CR}
{CR}{LF}OK{CR}{LF}

info

AT+REGSND

#



AT+REGSND{CR}
{CR}{LF}+REGSND: type{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+REGSND=type{CR}
{CR}{LF}OK{CR}{LF}

type

ONCE_REG	
DATA_REG	

AT+REGFMT

#



AT+REGFMT{CR}
{CR}{LF}+REGFMT: type{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+REGFMT=type{CR}
{CR}{LF}OK{CR}{LF}

type

ASCII	ASCII
HEX	16

AT+HEARTEN

#



AT+HEARTEN{CR}

```
{CR}{LF}+HEARTEN: status{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+HEARTEN=status{CR}
{CR}{LF}OK{CR}{LF}
```

status

ON	
OFF	

AT+HEARSND

#



```
AT+HEARSND{CR}
{CR}{LF}+HEARSND: type{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+HEARSND=type{CR}
{CR}{LF}OK{CR}{LF}
```

type

NET	
SERIAL_PORT	

AT+HEARTTM

#



```
AT+HEARTTM{CR}
{CR}{LF}+HEARTTM: time{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+HEARTTM=time {CR}
{CR}{LF}OK{CR}{LF}
```

time 30

AT+HEARTDT

#



```
AT+HEARTDT{CR}
```

```
{CR}{LF}+HEARTDT:i nfo{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+HEARTDT=i nfo {CR}
{CR}{LF}OK{CR}{LF}
```

i nfo

heart_data

AT+HEARTFMT

#



```
AT+HEARTFMT{CR}
{CR}{LF}+HEARTFMT: type{CR}{LF}
{CR}{LF}OK{CR}{LF}
```

type

ASCI I	ASCI I
HEX	16

AT+GPSEN

GPS



```
AT+GPSEN{CR}
{CR}{LF}+GPSEN: status{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+GPSEN=status{CR}
{CR}{LF}OK{CR}{LF}
```

status

ON	
OFF	

AT+GPSTIME

GPS



```
AT+GPSTIME{CR}
{CR}{LF}+GPSTIME: ti me{CR}{LF}
{CR}{LF}OK{CR}{LF}
```



```
AT+GPSTIME=ti me{CR}
```


{CR}{LF}OK{CR}{LF}

time 30 [1,36000]

AT+GPSTYPE

GPS

◆
AT+GPSTYPE{CR}
{CR}{LF}+GPSTYPE: type{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+GPSTYPE=type{CR}
{CR}{LF}OK{CR}{LF}

type

0	GGA
1	RMC
2	GGA+RMC

AT+LBSSEN

LBS

◆
AT+LBSSEN{CR}
{CR}{LF}+LBSSEN: status{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+LBSSEN=status{CR}
{CR}{LF}OK{CR}{LF}

status

ON	
OFF	

AT+LBSTIME

LBS

◆
AT+LBSTIME{CR}
{CR}{LF}+LBSTIME: time{CR}{LF}
{CR}{LF}OK{CR}{LF}

◆
AT+LBSTIME=time {CR}

{CR}{LF}OK{CR}{LF}

time 60 [1,36000]

AT+LBSKEY

LBS



AT+LBSKEY{CR}
{CR}{LF}+LBSKEY:str{CR}{LF}
{CR}{LF}OK{CR}{LF}



AT+LBSKEY=str {CR}
{CR}{LF}OK{CR}{LF}

str

AT+LBSKEY="26408fd2868f040f6203d246f9c56e81"

LBS

()