1. Nạp firmware: trên terminal :

NSHD - firware vA.1.00

Configuring periphral...

Loading paremeters...

Initializing parameter...

Power up sim module

...Finish

ID : 0123

Debuger : 1 [{1:\_GSM, \_IT, \_COMMUNICATION, \_PACKAGE, \_COMMAND, \_CURADC, \_FUNC\_NAME}]

IP1 : 115.146.123.160

Port1 : 02022

IP2 : 115.146.123.160

Port2 : 02020

GPRS (s) : 180

RS485 BaudRate : 1152000

NumbOfPhone 1 : 00000000000

NumbOfPhone 2 : 00000000000

NumbOfPhone 3 : 00000000000

NumbOfPhone 4 : 00000000000

Mode of pair 1 : 0

Mode of pair 2 : 1

SelectMeasureFnc: 0

CTRLMapping Type: 30

PulseFlag Type : 72

Current\_CtrlBit : 0x00000000

ActiveLevel\_Ctrl: 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

ActiveMode\_Ctrl : 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Current\_CtrlByte: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

1. Test chức năng:
   1. Test IO
   2. TestFRAM + TestFlash
   3. Test connection

Sử dụng lệnh #W94 .\* để chạy test các chức năng trên.

Trên terminal:

CMD: #W94 .\*

Set default

#W94 #0123CFG\_OK.\*

\*Test output

- LED Blinking during 4s...

- CTRL Blinking during 6s...

\*Test Input

Please push anykey

- Using main power

- INT1 Pushed

- INT2 Pushed

- INT3 Pushed

- INT4 Pushed

\*Test ADC

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 22

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 21

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 25

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 25

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 25

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 26

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 22

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 23

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 24

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 22

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 24

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 24

- ADC1: 0

- ADC2: 0

- ADC3: 0

- ADC4: 26

\*Test Fram

- The operation of Fram: OK

- The operation of SFlash: OK

\*Test Connection

Synchronize baudrate with GSM Module

#Response: RDY

#Response: +CPIN: READY

3. Tập lệnh

#define C\_IP1SERVER 50 // dung cho viec thiet lap va doc dia chi IP cua may chu

#define C\_PORT1SERVER 51 // dung cho viec thiet lap va doc Port cua may chu

#define C\_IP2SERVER 52 // dung cho viec thiet lap va doc dia chi IP cua may chu

#define C\_PORT2SERVER 53 // dung cho viec thiet lap va doc Port cua may chu

#define C\_GPRSInterval 54 // khoang thoi gian du lieu duoc truyen ve server

#define C\_DeviceID 55 // dung de doc IMEI cua thiet bi

#define C\_FIRMVER 56 // doc phien ban firmware cua thiet bi

#define C\_PULSEMODE 57

#define C\_RS485\_BAUDRATE 59

#define C\_NOTHING 99

#define C\_NOCOMMAND 98

#define C\_TESTRS485 97 // lenh test su hoat dong cua cong RS485

#define C\_DEBUGMODE 96 //

#define C\_RESETSYS 95 // lenh restart thiet bij

#define C\_SELF\_TEST 94

#define C\_SET\_DEFAULT 93

#define C\_VIEW\_VARIABLES 92

#define C\_VIEW\_PARAMETER 91

#define C\_RESETSIMMODULE 0 // lenh restart module sim

#define C\_SYNCSIMMODULE 1

#define C\_CLEARHISTORY 2 // dung de xoa bo du lieu cu

#define C\_EARSE\_MEM 3 //

#define C\_CHECK\_ACC 4 // lenh kiem tra tai khoan SIM cua thiet bi

#define C\_CHECK\_PACKET 5 //

#define C\_CHECK\_STATUS 6 // lenh kiem tra trang thai, cac trang thai vaf thong tin cua thiet bi dc in len LCD

#define C\_HANDSHAKE 8 //

#define C\_TRIGGER 9 //

#define C\_OUTPUT0 10

#define C\_OUTPUT1 11

#define C\_OUTPUT2 12

#define C\_OUTPUT3 13

#define C\_OUTPUT4 14

#define C\_OUTPUT5 15

#define C\_OUTPUT6 16

#define C\_OUTPUT7 17

#define C\_OUTPUT 18

#define C\_SET\_THRESHOLD 19

//20

//21

//22

//23

//24

//25

//26

#define C\_CTRL\_ACTIVE\_LEVEL 28

#define C\_CTRL\_MODE 29

#define C\_CTRL\_REF 30

#define C\_VIEW\_CTRL\_MAPPING 31

#define C\_PHONENUMBOFCENTER1 40

#define C\_PHONENUMBOFCENTER2 41

#define C\_PHONENUMBOFCENTER3 42

#define C\_PHONENUMBOFCENTER4 43