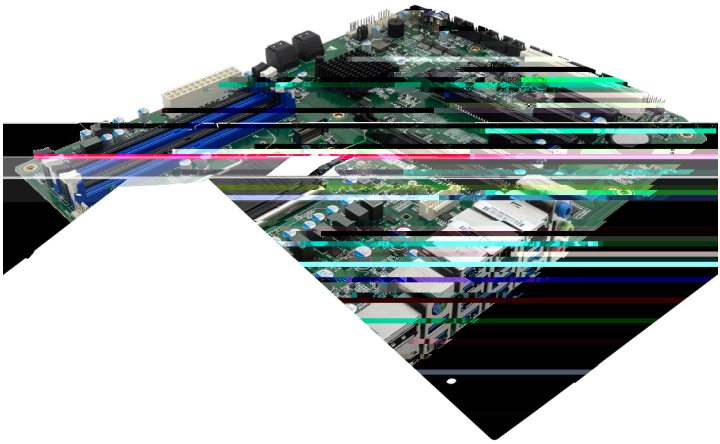
AIOT0-Q570



Version 1.0

5 33
6 WDT #T.....`.....`.....`..n..... 34
6.1 WDT

1

1.1

X 1
X 1(1PCS/)
SATA X 1
I/O X 1

1.2

	- Intel LGA1200 Gen10&11 i9/i7/i5/i3/G CPU TDP 125W W580 Xeon W-1200 CPU
	- Intel® Q570 W580
	- 4 × 288PIN DDR4 UDIMM 32GB 128GB CPU DDR4-2133/2400/2666/2933/3200 W580 ECC
	- Intel CPU (CPU)
	- DP+DP+HDMI+DVI-D
	- 4 SATA3.0 SATA RAID 0/1/5 M.2 SATA SSD SATA1 1 M.2 2242/2280 Key-M SSD SATA Nvme x4 (Gen11)
	- IO MIC-In Speaker-Out Line-In
	- 2 Intel : LAN1: i225 2.5Gb LAN2: i219V
USB	- 10 USB3.2 Type A IO (2 Gen2 , 8 Gen1) 2 USB2.0 USB Dongle 2 USB2.0 2
LPT	- 1 LPT GPIO

1.3

( )

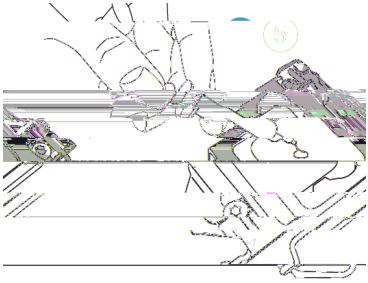
1.6 IO



( )

- COM:
- HDMI: HDMI
- DP: DP
- PS2:
- USB3.0: USB3.0
- LAN: RJ45
- AUDIO1: MIC-In, Speaker-Out, Line-In

4. CPU G

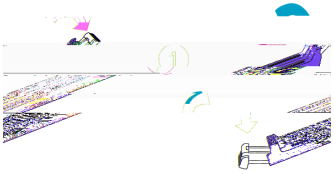


2.2

1. G
2. G
3. G

:

1. AC G
2. G
3.
4. 30 “ ” ,
   G
5. DIMM G



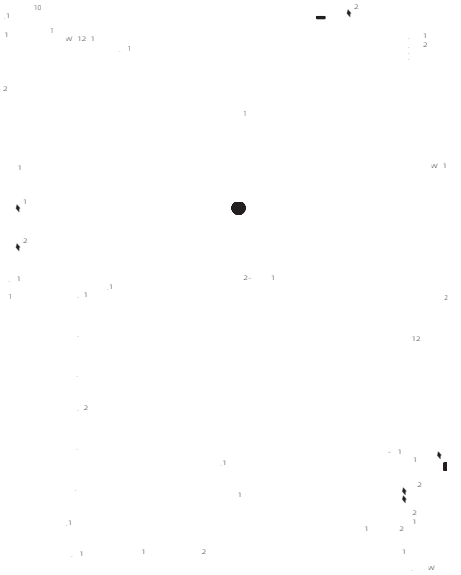




G

3

3.1 Serial ATA



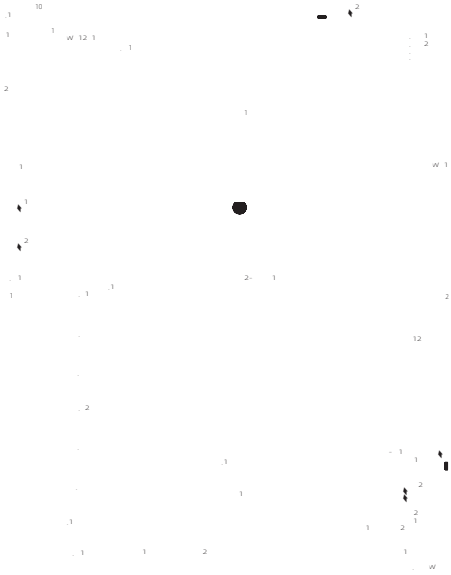
Serial ATA
Serial ATA
Serial ATA
G

3.2 M2-KEYM1

M2-KEYM1 SSD

30

G



&

3.1

2 G

G

3 1‘ 2 2‘ 3 G



SHORT OPEN OPEN Pin1~2 SHORT Pin2~3 SHORT

1

1. "1" 1 G
2. G

3.2

JME1 ME
ME 1-2

1-2	Disable ME
2-3	NORMAL

CLR_COMS1 2-3
BIOS

1-2	NORMAL
2-3	CLEAR_COMS

BIOS_WP
2-3 BIOS

1-2	NORMAL
2-3	BOIS_WP

ATX-M1 1-2
2-3

1-2	ATX Mode
2-3	AT Mode

JCOM2

RS232	RS485	RS422
JC4(1-2)	JC4(3-4)	JC4(5-6)
JC5(1-3)	JC5(3-5)	JC25(3-5)
JC5(2-4)	JC5(4-6)	JC5(4-6)
JC6(1-3)		JC6(3-5)
JC6(2-4)		JC6(4-6)

COM1

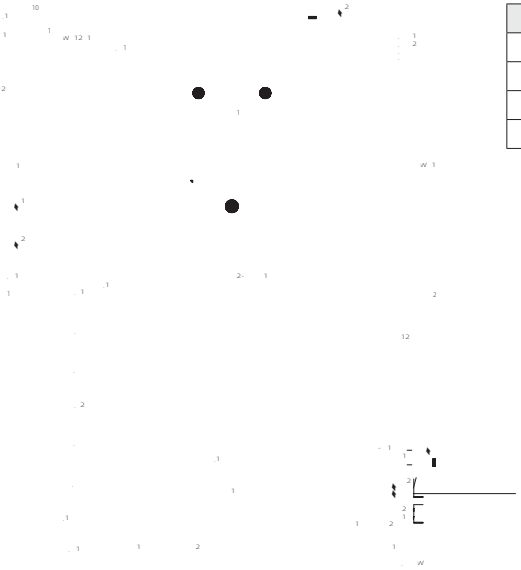
RS232	RS485	RS422
JC1(1-2)	JC1(3-4)	JC1(5-6)
JC2(1-3)	JC2(3-5)	JC2(3-5)
JC2(2-4)	JC2(4-6)	JC2(4-6)
JC3(1-3)		JC3(3-5)
JC3(2-4)		JC3(4-6)

RS-232/422/485

3.3 PWR12V1/ATXPWR1 ATX 8pin+24pin



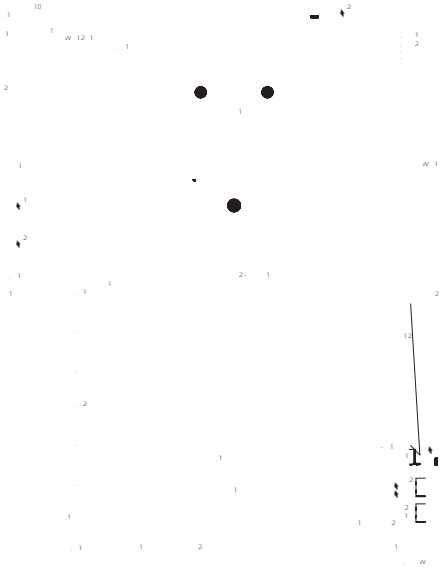
3.5 FPANEL2 2.0mm / /



1	PWR_SW	2	GND
3	GND	4	SYSY_RST
5	HDD_LED-	6	HDD_LED+
7	PWRLED-	8	PWRLED+

3.7 F_USB2/F_USB1





3.11 JDEBUG1 2.0mm



4.1 BIOS

AMI BIOS BIOS Basic Input Output System(ROM Read-Only Memory) BIOS

a. POST(Power On Self Test)
b.
c.
d. SETUP

BIOS CMOS RAM BIOS CMOS BIOS

4.2 BIOS

BIOS Setup BIOS

SETUP

a. SETUP
b.

BIOS BIOS

4.2.1 BIOS

<DEL> BIOS

Press <Delete> to enter SETUP

Press <F11> to enter Boot Menu

4.2.2

<Enter> <F1> <Esc>

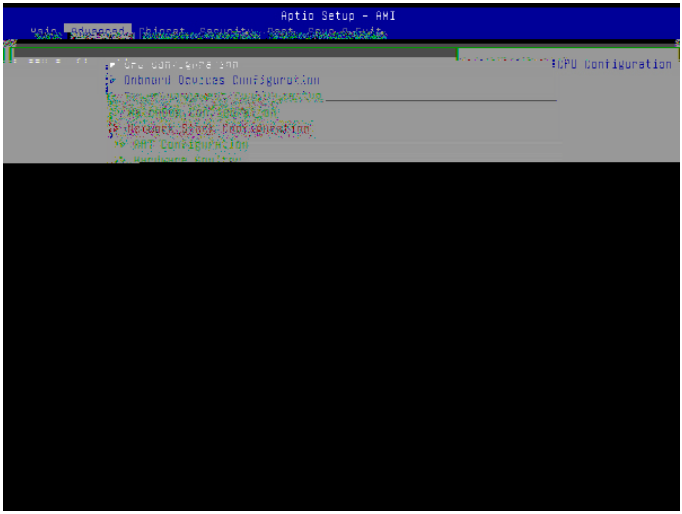
← →	
↑ ↓	
	/
	CMOS SETUP
	CMOS

4.3 Main

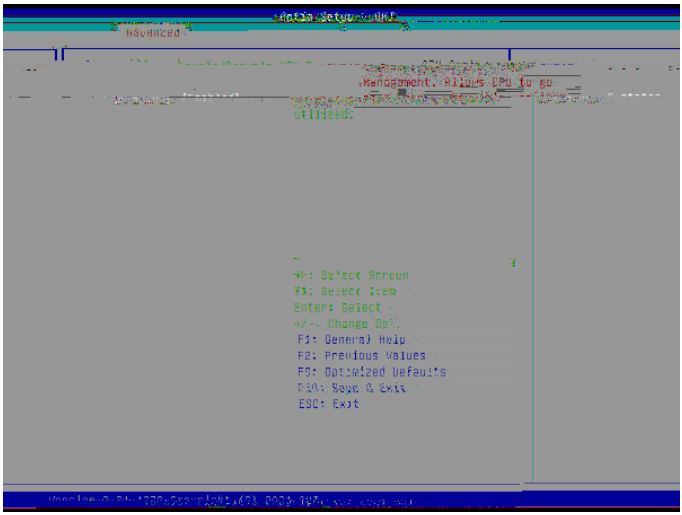


- BIOS Information(BIOS
- System Date ( )
  , “ / / ” G
- System Time
  < >< >< > G

4.4 Advanced



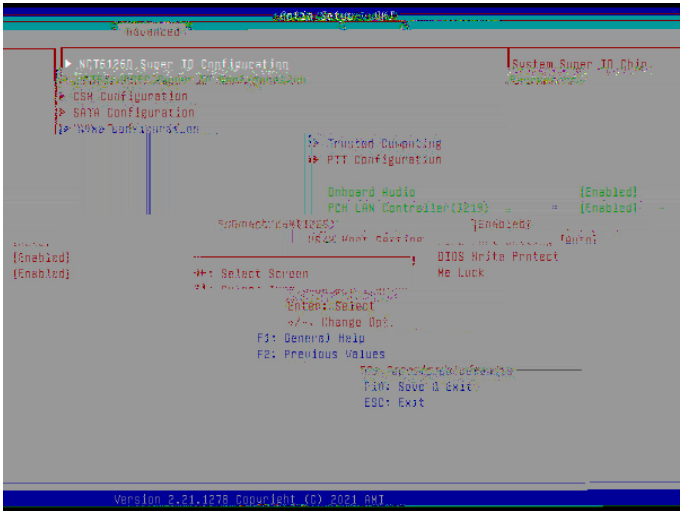
► CPU Con f guration <Enter>



- C states
  / CPU G
  Enabled,Disabled.

- <Esc> “ Advanced ”

► Onboard Devices Con f guration <Enter>



- Onboard Audio

  G

  Enabled,Disabled.
- PCH LAN Controller I219

  PCH G

  Enabled,Disabled.
- Onboard LAN I225

  G

  Enabled,Disabled.
- PS/2 Port Setting

  G

  Auto,KeyBoard,Mouse.
- BIOS Write Protect

  BIOS G

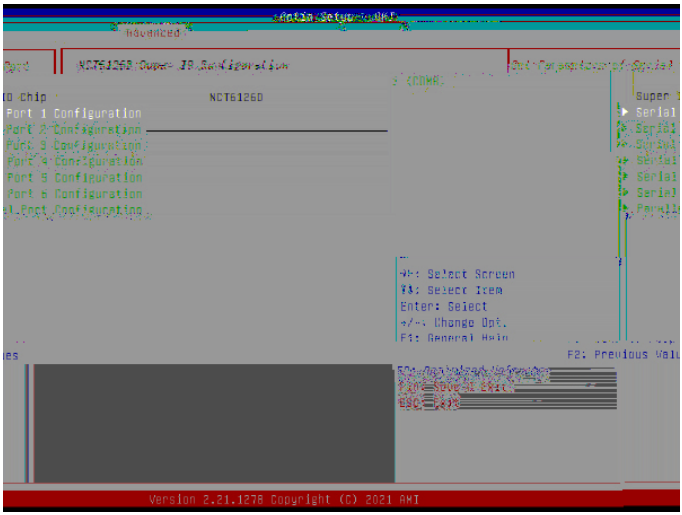
  Enabled,Disabled.
- Me Lock

  ME G

  Enabled,Disabled.

- <Esc> “ Advanced ”

► NCT61260 Super IO Con f guration <Enter>

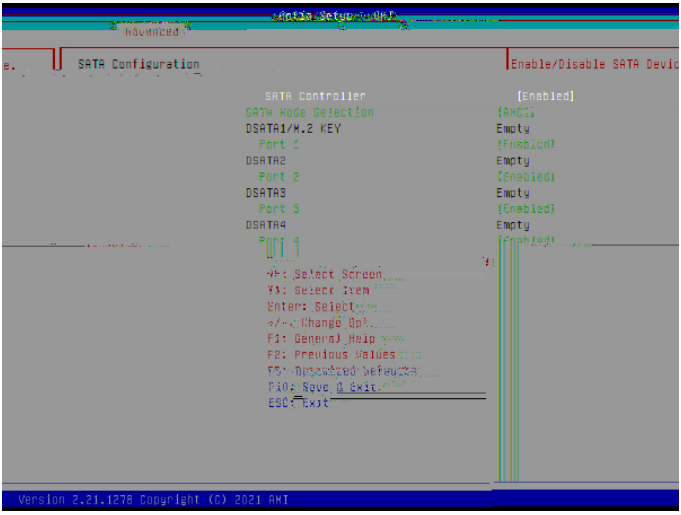


- Super IO Con f guration

- CSM Support
  CSM G
  Enabled,Disabled.

- <Esc> “ Advanced ”

► SATA Con f guration <Enter>



- SATA Controller
  SATA G
  Enabled,Disabled.
- SATA Mode Selection
  SATA G
  AHCI,Raid.

- <Esc> “ Advanced ”

•

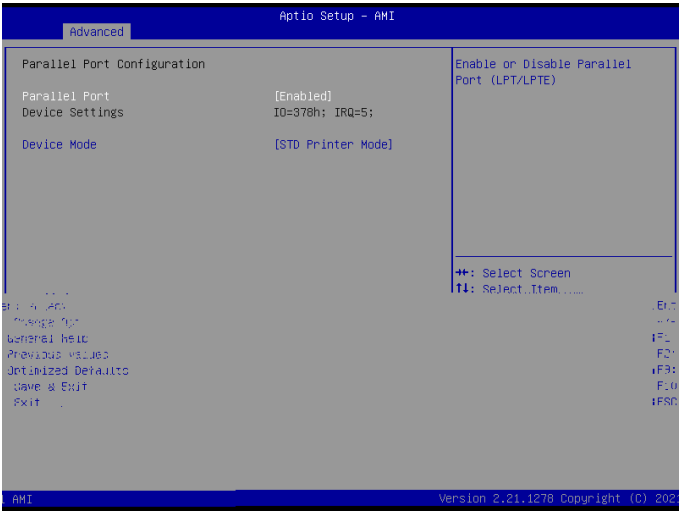
► PTT Con f guration



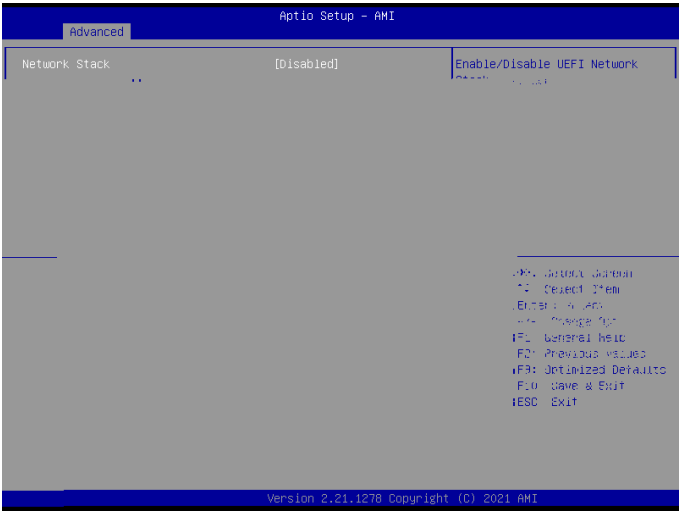
- TPM Device Selection
  TPM G
  dTPM,PTT.

- <Esc> “ Advanced ”

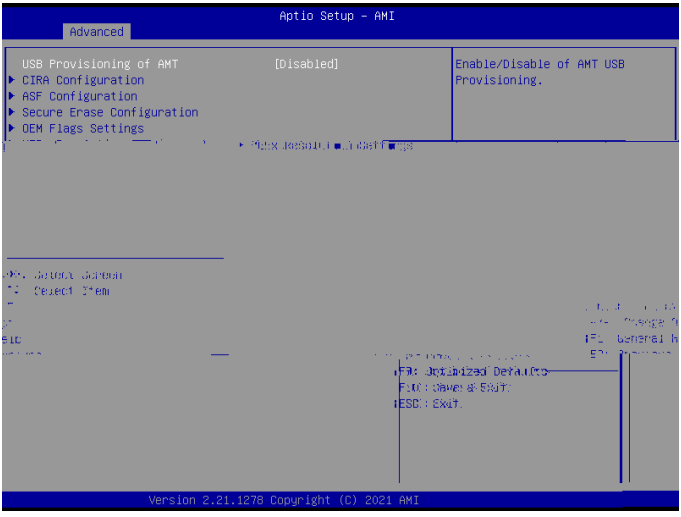
► PowerManagement Con f guration <Enter>



► Network Stack Con f guration <Enter>



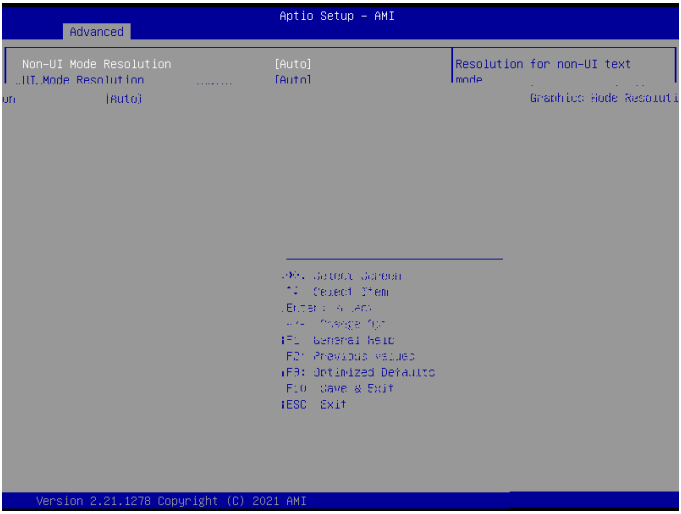
► AMT Con f guration <Enter>



- USB Provisioning of AMT
  AMT USB G
  Enabled,Disabled.

- <Esc> “ Advanced ”

► Hardware Monitor <Enter>



- Non-UI Mode Resolution

  UI G

  Auto,80x25,100x31.
- UI Mode Resolution

  UI G

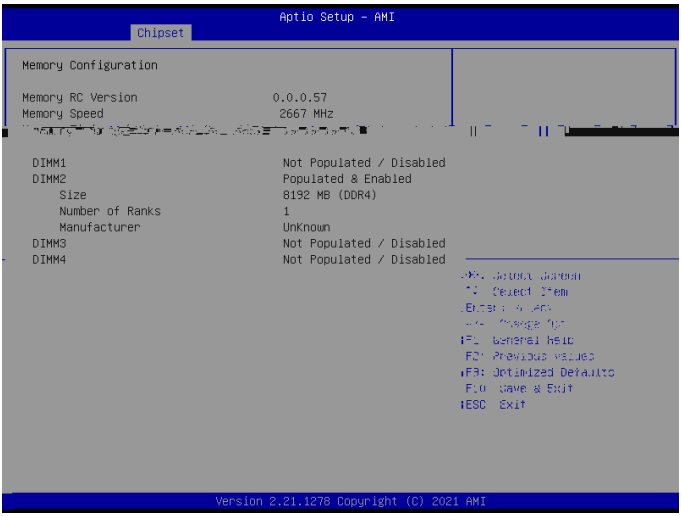
  Auto,80x25,100x31.
- Graphics Mode Resolution

  G

  Auto,,600x480,800x600,1024x768.

- <Esc> “ Advanced ”

► MEmory Con f guration



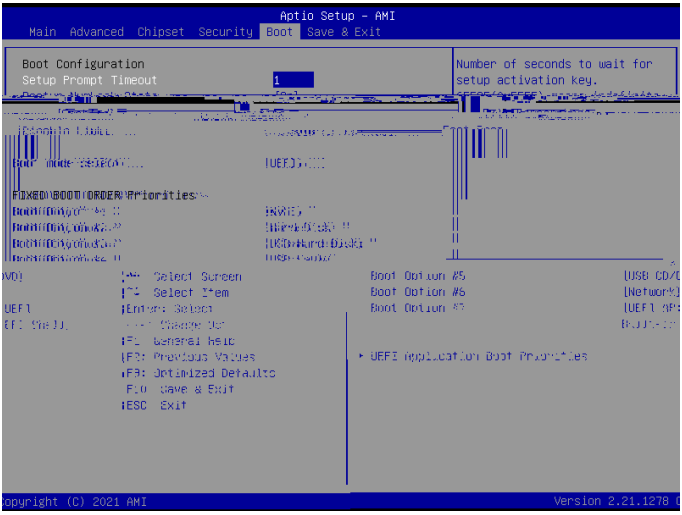
- MEmory Con f guration
  G

- <Esc> “ Chipset ”

4.6 Security

- Administrator Password

4.7 Boot



- Setup Prompt Timeout

  G

- Bootup NumLock State

  Numlock G On NumLock

  G Of Numlock G

  On,Of.

- Full Screen Logo

  Logo G

  Enabled,Disabled.

- Fast Boot

  G

  Enabled,Disabled Link.

- Boot mode select

  G

  LEGACY,UEFI.

- Boot Option #1-7

  G

  NVME,Hard Disk,USB Hard Disk,USB key,USB CD/DVD,Network,UEFI AP: Built-in EFI Shell.

4.8 Save & Exit



- Save Changes and Reset

  G

- Discard Changes and Reset

  G

- Restore Defaults

  G

6 WDT

6.1 WDT

WDT SIO LDN DEV8, 0XF0 BIT3 0 1
0XF1 0XF0 BIT3 0 0XF1 0X20 32 G

6.1.1

```
//      SIO
        IoWrite8(0x2E,0x87);
        IoWrite8(0x2E,0x87);

        IoWrite8(0x2E,0x07);
        IoWrite8(0x2F,0x08);    //      Logic Device 8

        IoWrite8(0x2E,0x30);
        Data8 = IoRead8(0x2F);
        Data8 |= 0x1;
        IoWrite8(0x2F,Data8);

        IoWrite8(0x2E,0xf1);
        IoWrite8(0x2F,0x00);

        IoWrite8(0x2E,0xf2);
        IoWrite8(0x2F,0x00);

        IoWrite8(0x2E,0xF0);
        Data8 = IoRead8(0x2F);
        //WdtCountMode =1
        if(SetupData.WdtCountMode == 1){
          Data8 = Data8 | 0x08;
        }
        else{
          Data8 = Data8 & (~0x08);
        }

        IoWrite8(0x2F,Data8);
        IoWrite8(0x2E,0xF1);
        //WDT
        IoWrite8(0x2F,SetupData.WdtTimeOut);
        //      SIO
        IoWrite8(0x2E,0xaa);
```

6.1.2

```
//      SIO
        IoWrite8(0x2E,0x87);
       IoWrite8(0x2E,0x87);

       IoWrite8(0x2E,0x07);
       IoWrite8(0x2F,0x08);    //      Logic Device 8

       IoWrite8(0x2E,0x30);
       Data8 = IoRead8(0x2F);
       Data8 &= (~0x1);
       IoWrite8(0x2F,Data8);

       IoWrite8(0x2E,0xf1);
       IoWrite8(0x2F,0x00);

       //      SIO
       IoWrite8(0x2E,0xaa);
```

CR F0h. Watchdog Timer I(WDT1) and KBC P20 Control Mode Register

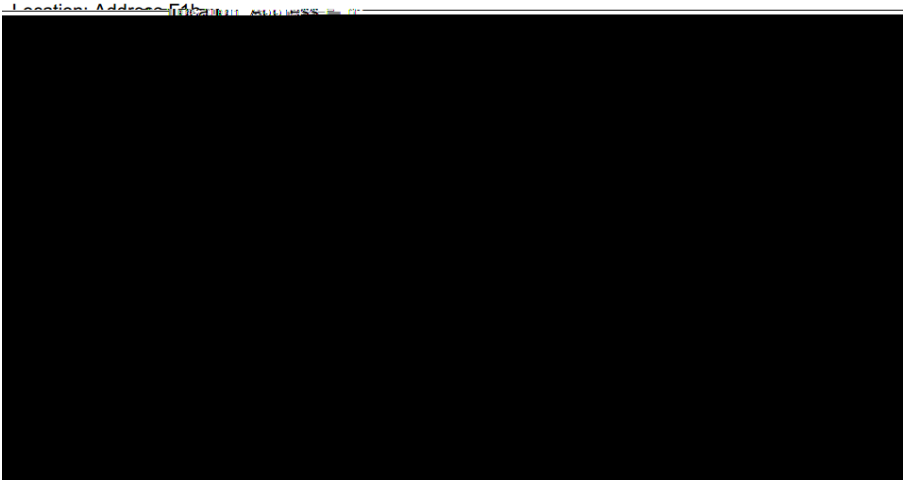
Location: Address F0h





CR F1h. Watchdog Timer I(WDT1) Counter Register

Location: Address F1h



7 GPIO

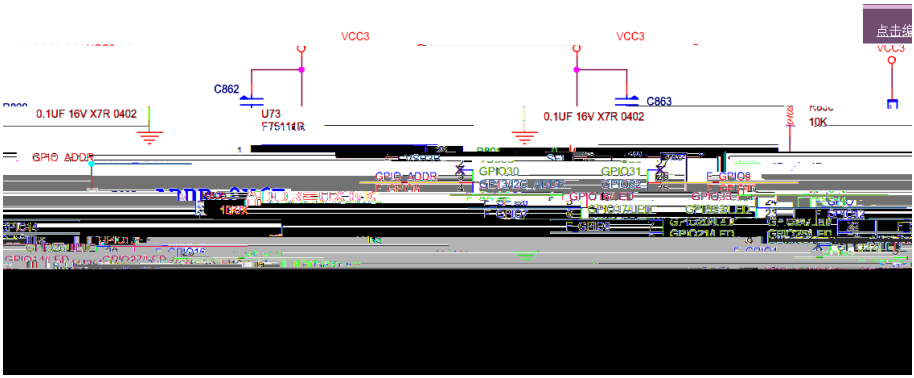
7.1 GPIO

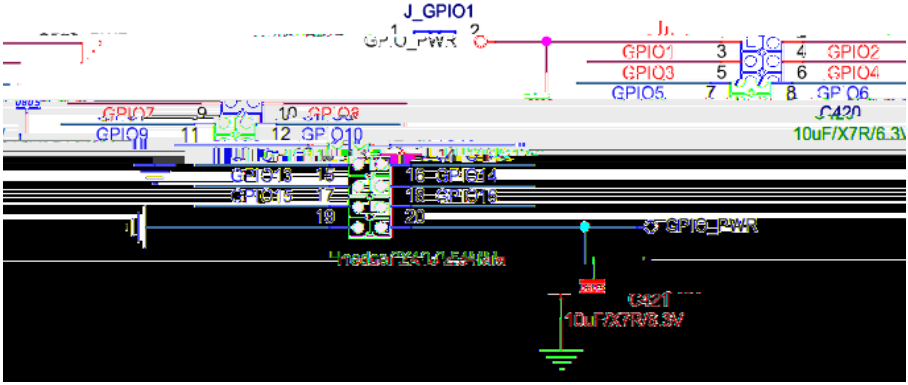
FINTEK 7511 GPIO 7511 PCH SMBUS FINTEK 7511.

7.1.1 FINTEK 7511 SPEC

F75111_V027P

7.1.2





					USB3	USB2	COM	LAN	PCI	PCIe
AIoT0-Q570	Q570	4 DDR4	4(3)	4SATA	10	4	6	2	1	6



根据中　人民共和国信息产业部发布的《电子信息产品污染控制管理办法》所展开的 SJ/T11364-2014 标准要求，本产品污染控制标识以及有毒有害物质或元素标识说明如下：

产品有毒有害物质或元素标识：

产品中有毒有害物质或元素的名称及含量
