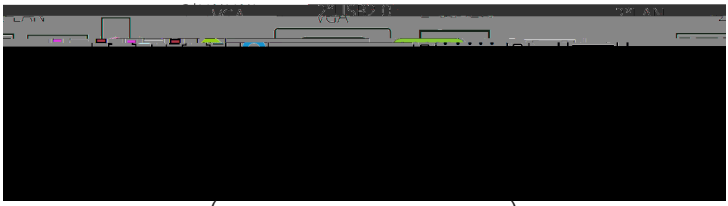
6.1 wdt 36
7 GPIO 37
7.1 GPIO 37
1 39
2 40

1.3

1.6 IO



( )

- VGA:VGA
- DP: DP
- USB2.0: USB2.0
- HDMI: HDMI
- USB3.0: USB3.0
- LAN: RJ45
- AUDIO:

2

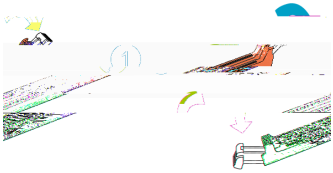
2.1

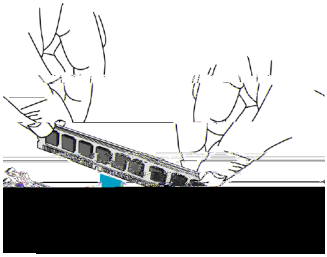
1. G
2. G
3. G

:

1. AC G
2. G
3.
4. 30 d d ,
   G Ÿ ÿ
5. DIMM G

ÿ ÿ







G

2.2

2.2.1 Serial ATA

Serial ATA
Serial ATA
Serial ATA G

2.3.2 M2-KEY

M.2 SSD
30

G

2.3.3 DIMM

4 DDR4 UDIMM
32GB





2.3.4 PCI/PCIE

2 PCIe4.0/30 x16 (x8)
1 PCIe4.0 x4
1 PCIe3.0 x8 (x4)
1 PCIe3.0 x4
2 PCI



3.3 ATXWR









3.7 J1







3.9 F_USB1/F_USB2/F_USB3







3.10 FPANEL1/FPANEL2





3.12 LPT







4 BIOS

4.1 BIOS

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

a. POST(Power On Self Test)
b.
c. H
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

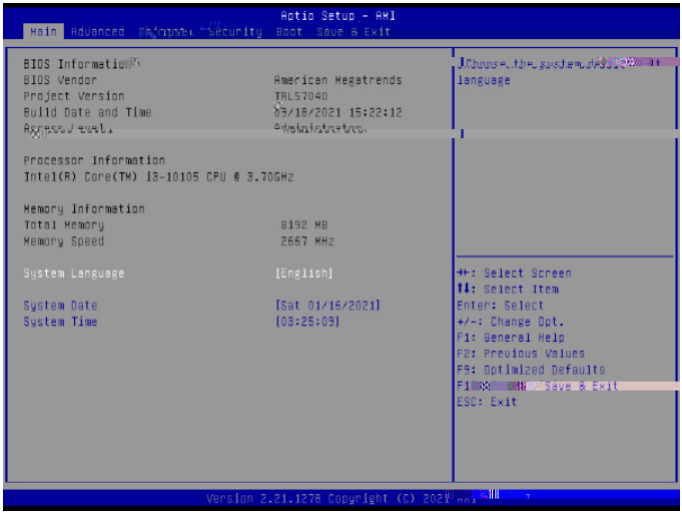
Press <F11> to enter Boot Menu

4.2.2

<Enter> <F1> <Esc>

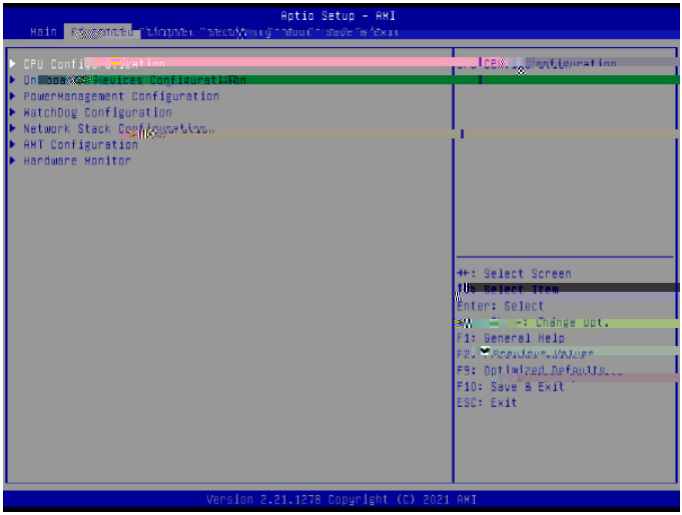
← / →	
↑ / ↓	
+/ -	/
<Enter>	
<ESC>	CMOS SETUP
<F1>	
<F7>	
<F9>	
<F10>	CMOS

4.3 Main

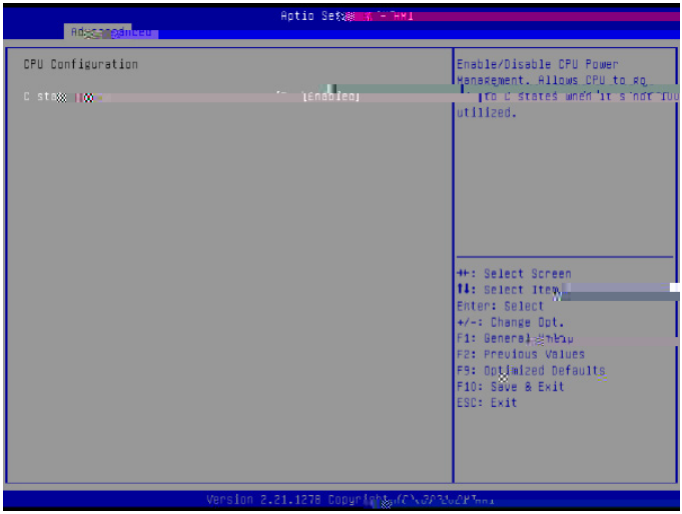


- BIOS Information(BIOS
- System Date ( )
  , d / / d G
- System Time
  < >< >< > G

4.4 Advanced



► CPU Con f guration <Enter>



● C states

/ CPU G

Enabled,Disabled.

● <Esc> d Advanced d

► 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.

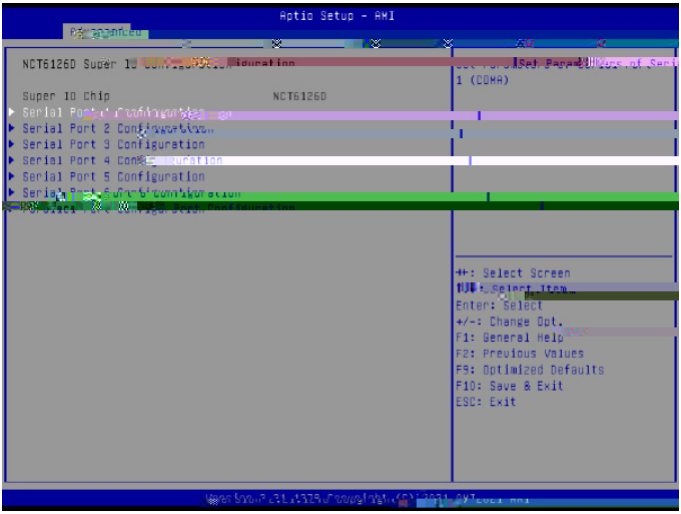
● Me Lock

ME G

Enabled,Disabled.

●

► NCT6 1260 Super IO Con f guration <Enter>

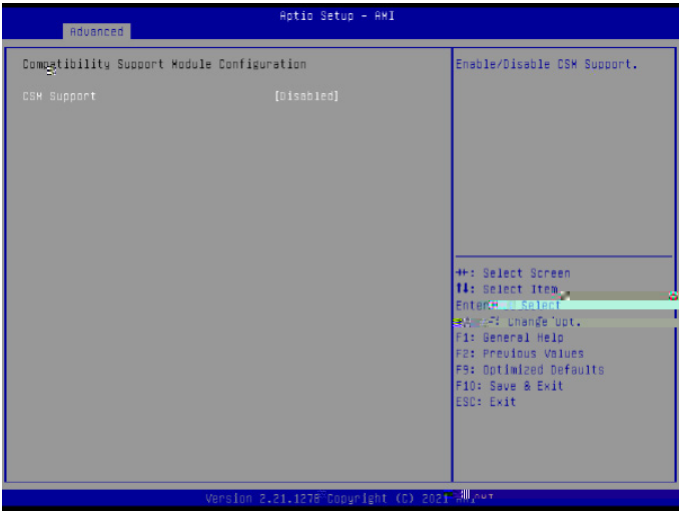


● Super IO Con f guration

G

● <Esc> ⊿ Advanced ⊿

► CSM Con f guration <Enter>



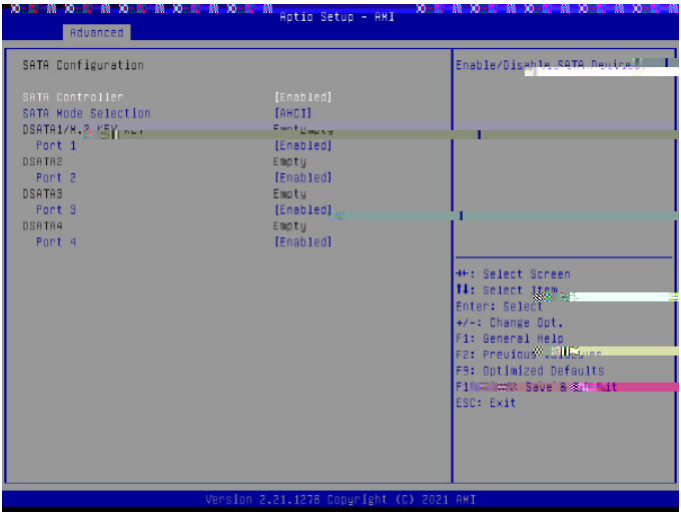
● CSM Support

CSM G

Enabled,Disabled.

● <Esc> d Advanced d

► SATA Con f guration <Enter>



- SATA Controller

  SATA G

  Enabled,Disabled.
- SATA Mode Selection

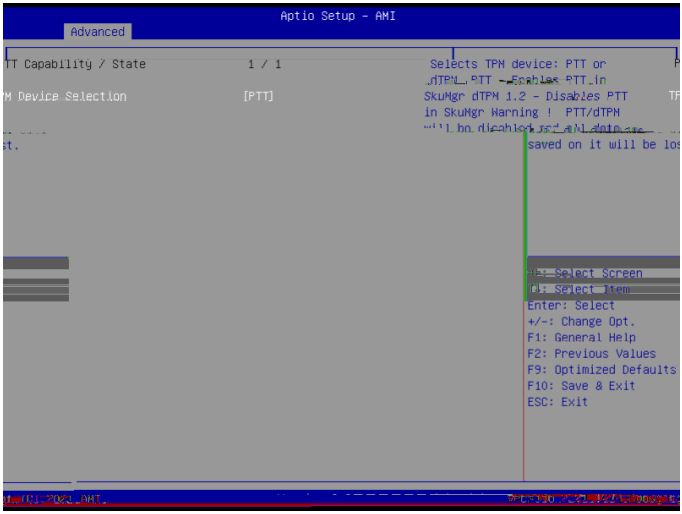
  SATA G

  AHCI,Raid.

- <Esc> d Advanced d

- Security Device Support

► PTT Con f guration <Enter>



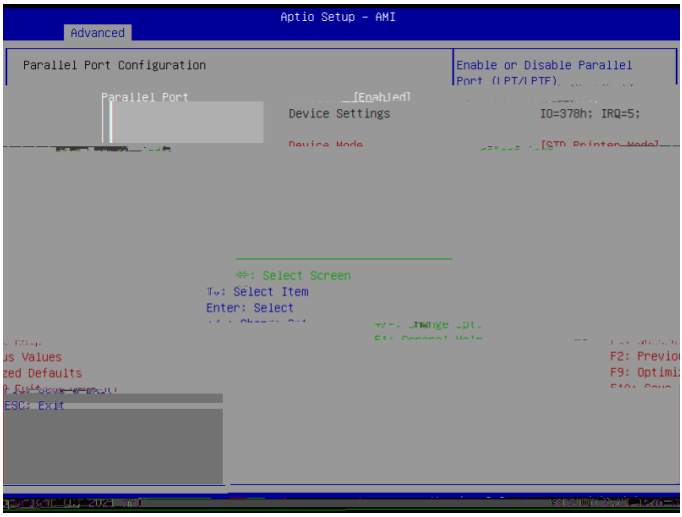
● TPM Device Selection

TPM G

dTPM,PTT.

● <Esc> d Advanced d

► PowerManagement Con f guration <Enter>



● Parallel Port

G

Enabled,Disabled.

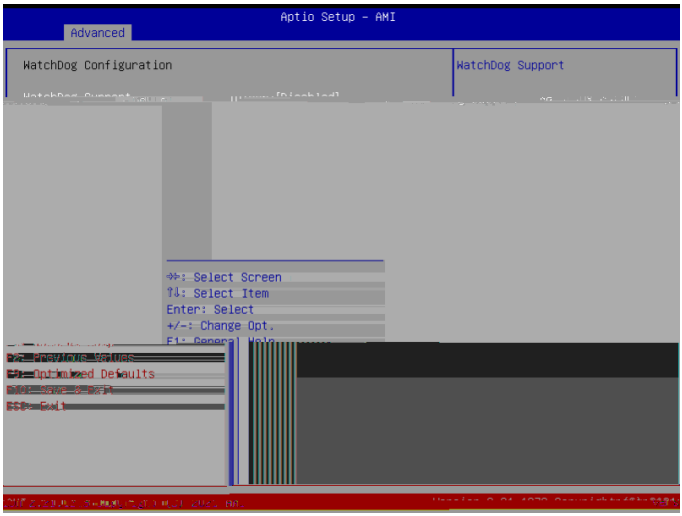
● Device Mode

G

STD Printer Mode,SPP Mode,EPP-1.9 and SPP Mode,EPP-1.7 and SPP Mode,ECP Mode,ECP and EPP 1.9 Mode,ECP and EPP 1.7 Mode

● <Esc> d Advanced d

► WatchDog Con f guration <Enter>



● WatchDog Support

G

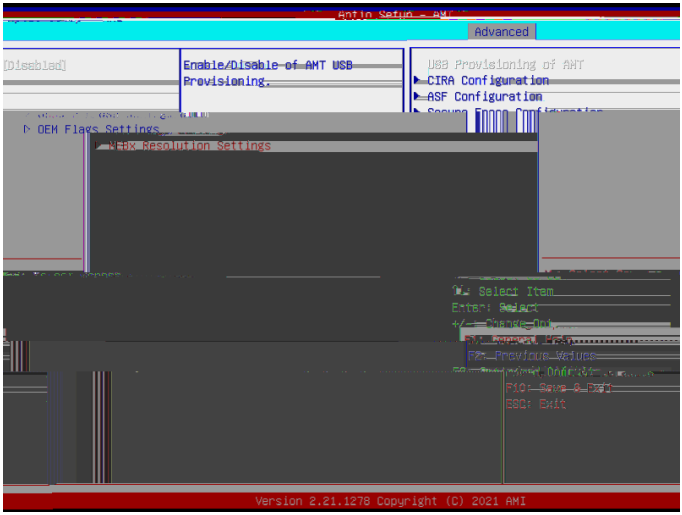
Enabled,Disabled.

● <Esc> d Advanced d

► Network Stack Con f guration <Enter>



► AMT Con f guration <Enter>



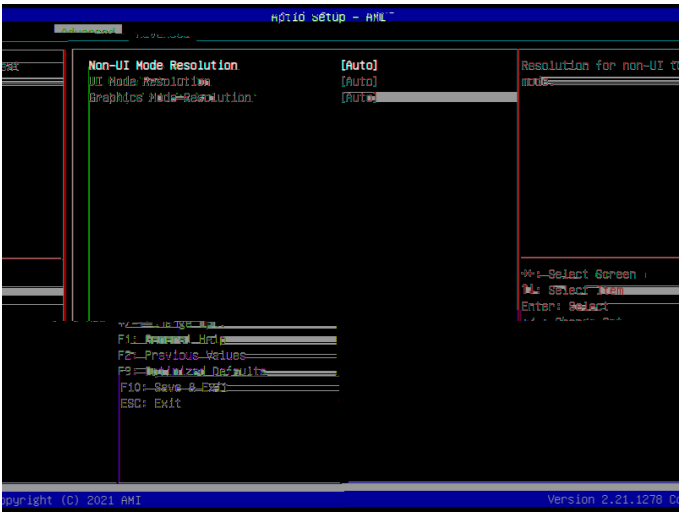
● USB Provisioning of AMT

AMT USB G

Enabled,Disabled.

● <Esc> d Advanced d

► Hardware Monitor <Enter>



- Non-UI Mode Resolution

  UI G

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

  UI G

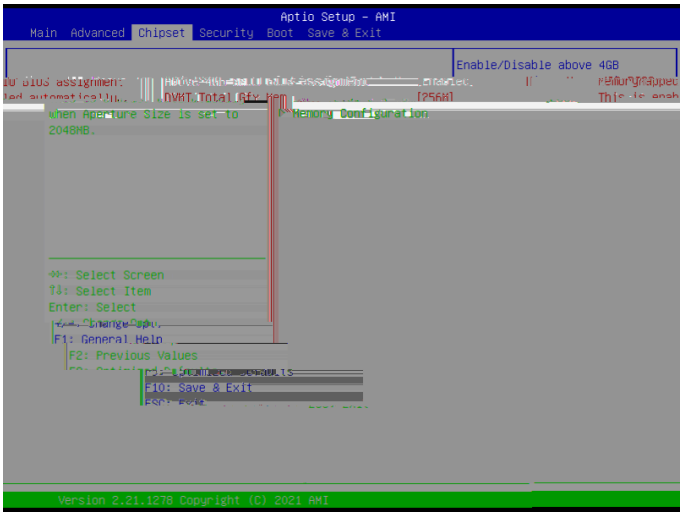
  Auto,80x25,100x31.
- Graphics Mode Resolution

  G

  Auto,600x480,800x600,1024x768.

- <Esc> d Advanced d

4.5 Chipset



Above 4GB MMID BIOS assignmet

4GB MMID BIOS G

Enable,Disable.

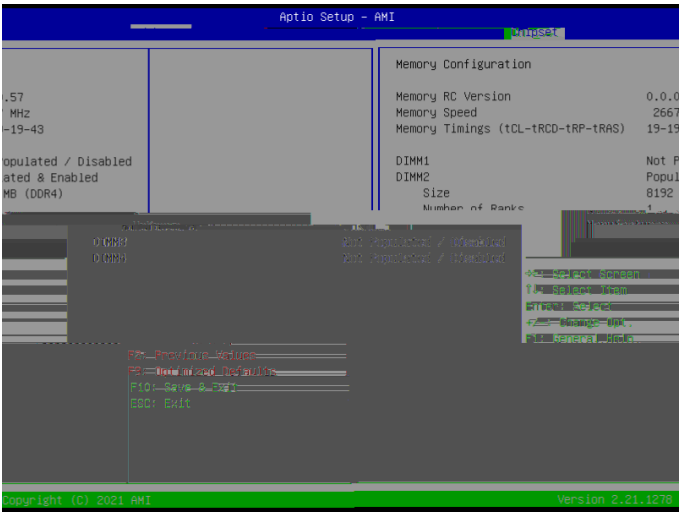
DVNT Total Gfx Mem

DVMT G

256M,128M,MAX.

- <Esc> d Chipset d

► MEmory Con f guration

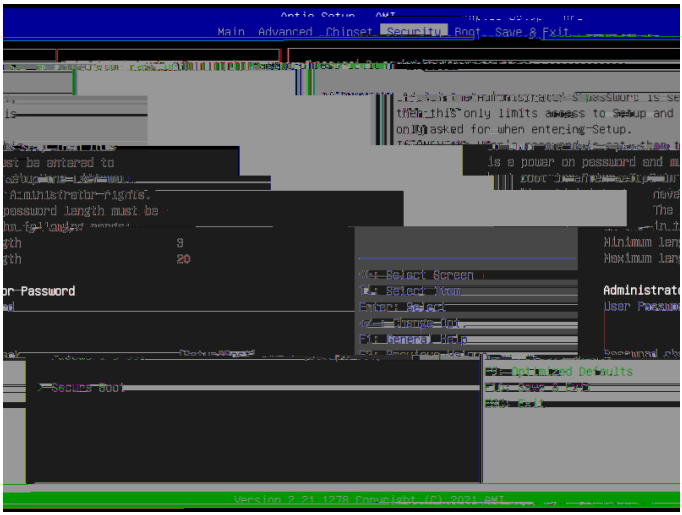


● MEmory Con f guration

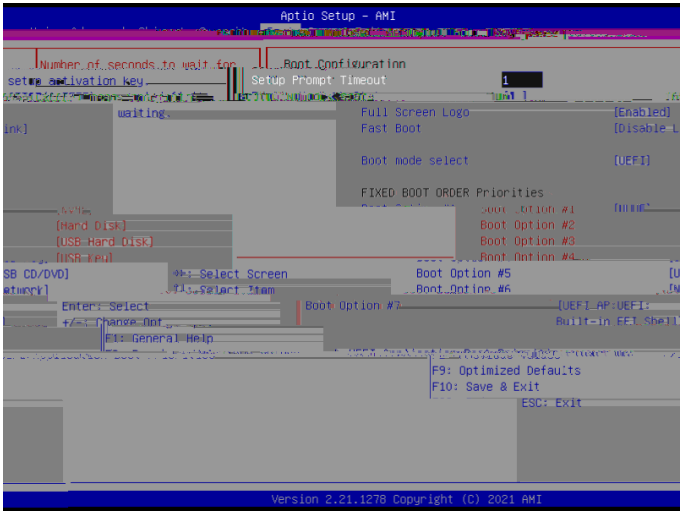
G

● <Esc> d Chipset d

4.6 Security


Main Advanced Chipset Security Boot Save & Exit
Select Screen
Select Item
Enter Select
Change Opt.
General Help
Optimized Defaults
Secure Boot
Version 2.21.1278 Copyright (C) 2021 AMI

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

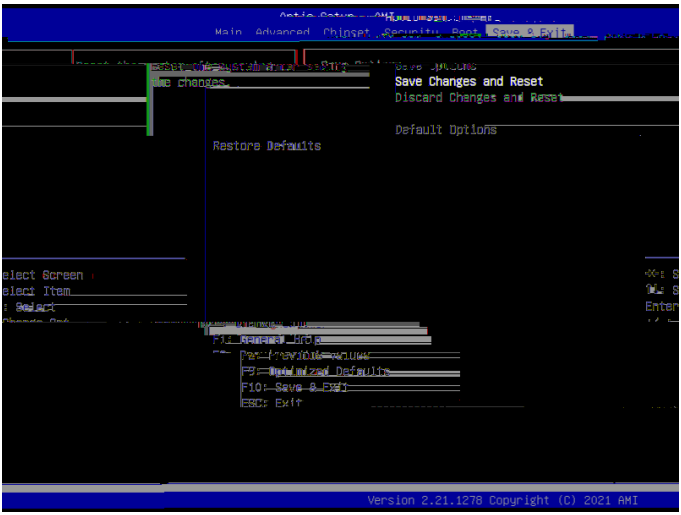
LEGACY,UEFI.

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

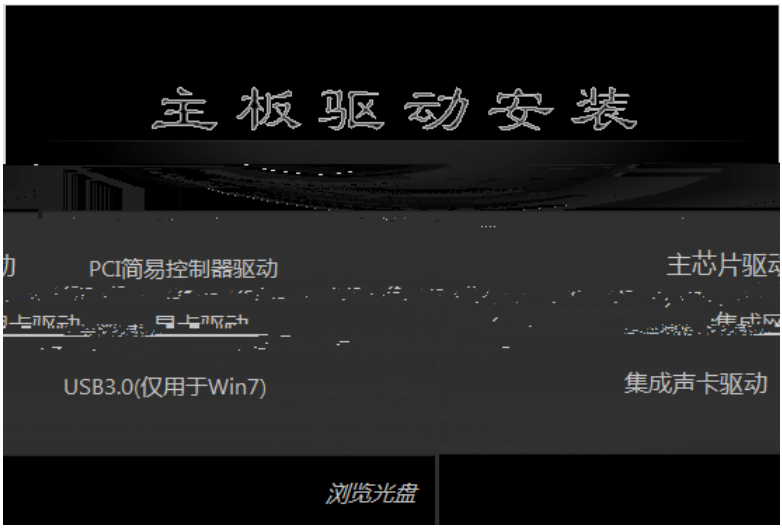
Restore Defaults

G

5

G

X \AUTORUN.EXE Ÿ X ÿ G



( )

G

6 WDT

6.1 wdt

```
#define SuperIo_Index_Port 0x2E
#define SuperIo_Data_Port 0x2F
#define GPIO_LDN8_DEVICE 0x08
UINT8 Data8
//a.        Super IO    Configuration Mode
IoWrite8(SuperIo_Index_Port, 0x87);
IoWrite8(SuperIo_Index_Port, 0x87);
//b.                    GPIO, LDN 8
IoWrite8(SuperIo_Index_Port, 0x07);
IoWrite8(SuperIo_Data_Port, GPIO_LDN8_DEVICE);
//c. Enabled WDT
IoWrite8(SuperIo_Index_Port, 0x30);
IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) | 0x01);
//Disable WDT
//IoWrite8(SuperIo_Index_Port, 0x30);
//IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) & 0xFE);
//d.        WDT                         Register 0xF0    Bit3          1                    0
IoWrite8(SuperIo_Index_Port, 0xF0);
//
IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) | 0x08);
//
// IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) & 0xF7);
//e.        WDT              5    /
IoWrite8(SuperIo_Index_Port, 0xF1);
IoWrite8(SuperIo_Data_Port, 0x5);
//        WDT
//IoWrite8(SuperIo_Index_Port, 0xF1);
//IoWrite8(SuperIo_Data_Port, 0x0);
//f.        Super IO    Configuration Mode
IoWrite8(SuperIo_Index_Port, 0xAA); //        Super IO Configuration Mode        SuperIO
                                    ,                  Configuration Mode
```

GPIO Out GPIO1

					USB3	USB2	COM	LAN	PCI	PCIe
SIM0-7360	W580	4 DDR4	3(3)	4 SATA	4	2	6	6	2	5

