

# 首页

Aptio Setup Utility - Copyright (C) 2023 American Megatrends, Inc.

Main Advanced IntelRCSetup Security Boot Save & Exit

BIOS Information  
BIOS Vendor American Megatrends  
Core Version 5.11  
Compliance UEFI 2.4; PI 1.3  
BIOS Version HUANANZHI X99-4MF  
Access Level Administrator

Memory Information  
Total Memory 16384 MB

System Language [English]

System Date [Wed 05/24/2023]  
System Time [11:06:44]

Choose the system default language

---

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# 风扇转速检测

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
- ▶ ACPI Settings
- ▶ NCT5532D SSIO Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ Realtek PCIe GBE Family Controller (MAC:00:E0:4C:68:00:B5)
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

Monitor hardware status

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Advanced

## Pc Health Status

CPU 1 temperature : +46 °C  
CPU Fan 1 Speed : 1537 RPM  
SYS Fan 3 Speed : N/A

---

→→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# 温控

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Main **Advanced** IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
- ▶ ACPI Settings
- ▶ NCT5532D SSI0 Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ Realtek PCIe GBE Family Controller (MAC:00:E0:4C:68:00:B5)
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

Smart Fan function setting

---

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Advanced

Smart Fan function setting  
Smart Fan 1 Mode [Automatic Mode]  
Smart Fan Temperature 1 30  
Smart Fan Temperature 2 40  
Smart Fan Temperature 3 50  
Smart Fan Temperature 4 60  
Smart Fan Critical Temperature 60  
Smart Fan PWM 1 150  
Smart Fan PWM 2 170  
Smart Fan PWM 3 200  
Smart Fan PWM 4 255  
Fan work mode with critical  
Temperature Tolerance [Full Mode]  
0

Smart Fan 1 Mode Select

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
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# 4G解码 SR-IOV

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Main **Advanced** IntelRCSetup Security Boot Save & Exit

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- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ Realtek PCIe GBE Family Controller (MAC:00:E0:4C:68:00:B5)
- ▶ **PCI Subsystem Settings**
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

PCI, PCI-X and PCI Express Settings.

---

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Advanced

PCI Bus Driver Version                   A5.01.05

## PCI Devices Common Settings:

PCI Latency Timer                   [32 PCI Bus Clocks]  
PCI-X Latency Timer                [64 PCI Bus Clocks]  
VGA Palette Snoop                 [Disabled]  
PERR# Generation                  [Disabled]  
SERR# Generation                  [Disabled]  
Above 4G Decoding                 [Disabled]  
SR-IOV Support                    [Disabled]  
BME DMA Mitigation                [Disabled]

▶ PCI Express Settings

▶ PCI Express GEN 2 Settings

Value to be programmed into  
PCI Latency Timer Register.

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

# UEFI网卡启动 网络唤醒

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Main **Advanced** IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
- ▶ ACPI Settings
- ▶ NCT5532D SSIO Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ Realtek PCIe GBE Family Controller (MAC:00:E0:4C:68:00:B5)
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

Network Stack Settings

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit



Advanced

Network Stack 网卡启动 [Disabled]  
Lan Wake up Control 网络唤醒 [Enabled]

Enable/Disable UEFI Network Stack

Network Stack  
Disabled  
Enabled

→→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# CSM兼容模式

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
- ▶ ACPI Settings
- ▶ NCT5532D SSI0 Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ Realtek PCIe GBE Family Controller (MAC:00:E0:4C:68:00:B5)
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

CSM configuration:  
Enable/Disable, Option ROM  
execution settings, etc.

---

→→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Advanced

## Compatibility Support Module Configuration

Enable/Disable CSM Support.

CSM Support [Enabled]

CSM16 Module Version 07.79

GateA20 Active [Upon Request]  
Option ROM Messages [Force BIOS]

Boot option filter [UEFI and Legacy]

Option ROM execution

Network [Do not launch]  
Storage [Legacy]  
Video [Legacy]  
Other PCI devices [UEFI]

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# CPU设置

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

-----  
Setup Warning:

Setting items on this Screen to incorrect values  
may cause system to malfunction!

Displays and provides option  
to change the Processor  
Settings

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

## Processor Configuration

## Change Per-Socket Settings

## ▶ Per-Socket Configuration 开启核心数量

Processor Socket	Socket 0
Processor ID	000406F1*
Processor Frequency	2.200GHz
Processor Max Ratio	16H
Processor Min Ratio	0CH
Microcode Revision	0B000038
L1 Cache RAM	1408KB
L2 Cache RAM	5632KB
L3 Cache RAM	56320KB
Processor 0 Version	Intel(R) Xeon(R) CPU E5 -2696 v4 @ 2.20GHz

Hyper-Threading [ALL] 超线程	[Enable]
Check CPU BIST Result	[Disabled]
Monitor/Mwait	[Enable]
Execute Disable Bit	[Enable]
Enable Intel TXT Support	[Disable]
VMX VT-X	[Enable]
Enable SMX	[Disable]
Lock Chipset	[Enable]
MSR Lock Control	[Enable]
PPIN Control	[Unlock/Enable]

←←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

▶ CPU Socket 0 Configuration

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

CPU Socket 0 Configuration

-----  
Cores Enabled 开启核心数量 0  
IOT Cfg Cbo Bitmap(Hex) 0

0是默认开启所有核心  
手动输入多少就是开启  
多少

Number of Cores to Enable. 0  
means all cores. 22 Cores  
available.

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

Displays and provides option to change the Power Management Settings

-----  
Setup Warning:

Setting items on this Screen to incorrect values may cause system to malfunction!

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit



## Advanced Power Management Configuration

-----

Power Technology	[Custom]
Config TDP	[Disable]
IOTG Setting	[Disable]
Uncore CLR Freq OVRD	[Auto]

- ▶ CPU P State Control
- ▶ CPU HWPM State Control
- ▶ CPU C State Control
- ▶ CPU T State Control
- ▶ CPU - Advanced PM Tuning
- ▶ SOCKET RAPL Config
- ▶ DRAM RAPL Configuration

Controls CPU frequency.

---

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## CPU P State Control

EIST (P-states)	[Enable]
Turbo Mode	[Enable]
P-state coordination	[HW_ALL]
SPD	[Disable]
PL2_SAFETY_NET_ENABLE	[Enable]
Boot performance mode	[Max Performance]

## Turbo Mode

Disable  
Enable

Turbo mode allows a CPU logical processor to execute a higher frequency when enough power is available not exceed CPU defined limits.

→→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## 内存设置

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

Displays and provides option to change the Memory Settings

-----  
Setup Warning:

Setting items on this Screen to incorrect values may cause system to malfunction!

→→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

-----  
Integrated Memory Controller (iMC)  
-----

Enforce POR	[Disabled]
PPR Type	[PPR Disabled]
PPR Error Injection test	[Disabled]
Memory Frequency <b>频率</b>	[Auto]
MRC Promote Warnings	[Enabled]
Promote Warnings	[Enable]
Halt on mem Training Error	[Enabled]
Multi-Threaded MRC	[Auto]
ECC Support <b>内存ECC</b>	[Auto]
Enforce Timeout	[Auto]
Enhanced Log Parsing	[Disable]
BSSA Module Loader	[Auto]
Backside RMT	[Auto]
Rank Multiplication	[Auto]
LRDIMM Module Delay	[Auto]
MemTest	[Auto]
MemTestLoops	1
Dram Maintenance Test	[Auto]
Dram Maintenance Test Direction	[UP Direction]
Dram Maintenance Test Inversion	[Disabled]
Dram Maintenance Test Repetitions	3

▲ Maximum Memory Frequency  
Selections in Mhz. Do not  
select Reserved

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# VT-D PCIE拆分

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

Displays and provides option to change the IIO Settings

-----  
Setup Warning:

Setting items on this Screen to incorrect values may cause system to malfunction!

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

## IIO Configuration

-----  
IIO PCIe Link on phase [Post chipset init]  
PCIe Train by BIOS [yes]  
PCIe Hot Plug [Disable]  
PCIe ACPI Hot Plug [Disable]  
EV DFX Features [Disable]

- ▶ IIO0 Configuration 拆分
- ▶ IOAT Configuration
- ▶ IIO General Configuration
- ▶ Intel VT for Directed I/O (VT-d) VT-D

## PCI Express Global Options

=====  
TX EQ WA [Enable]  
DMI Vc1 Control [Disable]  
DMI Vcp Control [Disable]  
DMI Vcm Control [Enable]  
VCO No-Snoop Configuration [Disable]  
Gen3 Phase3 Loop Count [16]  
Skip Halt On DMI Degradation [Disable]  
Power down unused ports [yes]  
SLD WA Revision [Auto]  
Rx Clock WA [Disable]  
PCI-E ASPM (Global) [Disable]

-----  
←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

IOU2 (IIO PCIe Port 1) [x4x4]  
IOU0 (IIO PCIe Port 2) [Auto]  
IOU1 (IIO PCIe Port 3) [Auto]  
No PCIe port active ECO [PCU Squelch exit ig...]  
▶ Socket 0 PcieD00F0 - Port 0/DMI  
▶ Socket 0 PcieD01F0 - Port 1A  
▶ Socket 0 PcieD01F1 - Port 1B M.2  
▶ Socket 0 PcieD02F0 - Port 2A  
▶ Socket 0 PcieD03F0 - Port 3A 显卡槽  
IOU0 Non-Posted Prefetch [Disable]  
IOU1 Non-Posted Prefetch [Disable]  
IOU2 Non-Posted Prefetch [Disable]

Selects PCIe port Bifurcation for selected slot(s)

---

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# 板载网卡 声卡开关 来电启动

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

-----

Setup Warning:  
Setting items on this Screen to incorrect values  
may cause system to malfunction!

Displays and provides option to change the PCH Settings

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit



## PCH Configuration

-----  
Onboard Lan 网卡 [Enabled]

Onboard Azalia 声卡 [Auto]

- ▶ PCH Devices 来电启动
- ▶ PCI Express Configuration
- ▶ PCH SATA Configuration
- ▶ USB Configuration
- ▶ Security Configuration
- ▶ Azalia Configuration
- ▶ Platform Thermal Configuration

Disable or Enable Onboard Lan

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save &amp; Exit

ESC: Exit

Board Capability	[DeepSx]
DeepSx Power Policies	[Disabled]
GP27 Wake From DeepSx	[Disabled]
SMBUS Device	[Enabled]
PCH Server Error Reporting Mode (S	[Disabled]
PCH Display	[Enabled]
Serial IRQ Mode	[Quiet]
External SSC Enable - CK420	[Disabled]
Restore AC after Power Loss 来电启动	[Power Off]
PCH CRID	[Disabled]

Select power status for ACPI  
state after a G3

— Restore AC after Power Loss —

Power On

**Power Off**

Last State

Select Screen

Select Item

r: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

# SATA

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IntelRCSetup

## PCH Configuration

---

Onboard Lan [Enabled]

Onboard Azalia [Auto]

- ▶ PCH Devices
- ▶ PCI Express Configuration
- ▶ PCH SATA Configuration
- ▶ USB Configuration
- ▶ Security Configuration
- ▶ Azalia Configuration
- ▶ Platform Thermal Configuration

## SATA devices and settings

---

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

## PCH SATA Configuration

```

-----
SATA Controller                [Enabled]
Configure SATA as              [AHCI]
SATA test mode                 [Disabled]
▶ SATA Mode options
SATA AHCI LPM                  [Enabled]
SATA AHCI ALPM                 [Enabled]

SATA Port 0                    [Not Installed]
Software Preserve              Unknown
  Port 0                       [Enabled]
  Hot Plug 热插拔              [Disabled]
  Configure as eSATA           [Disabled]
  Configured as eSATA          Hot Plug supported
  Spin Up Device               [Disabled]
  SATA Device Type             [Hard Disk Drive]

SATA Port 1                    [Not Installed]
Software Preserve              Unknown
  Port 1                       [Enabled]
  Hot Plug                      [Disabled]
  Configure as eSATA           [Disabled]
  Configured as eSATA          Hot Plug supported
  Spin Up Device               [Disabled]
  SATA Device Type             [Hard Disk Drive]

```

▲ Designates this port as Hot Pluggable.

---

```

←→: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

```

USB

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IntelRCSetup

PCH Configuration

Onboard Lan [Enabled]

Onboard Azalia [Auto]

- ▶ PCH Devices
- ▶ PCI Express Configuration
- ▶ PCH SATA Configuration
- ▶ USB Configuration
- ▶ Security Configuration
- ▶ Azalia Configuration
- ▶ Platform Thermal Configuration

USB Configuration Settings

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save & Exit

ESC: Exit

USB Precondition	[Disabled]
xHCI Mode	[Auto]
Trunk Clock Gating (BTCG)	[Enabled]
USB Ports Per-Port Disable Control	[Disabled]
XHCI Idle L1	[Enabled]
USB XHCI s755 WA	[Enabled]

Mode of operation of xHCI controller.

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

# 定时开机

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ Miscellaneous Configuration
- ▶ Server ME Debug Configuration
- ▶ Reserve Memory

-----  
Setup Warning:

Setting items on this Screen to incorrect values  
may cause system to malfunction!

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Miscellaneous Configuration

```

-----
Fan PWM Offset                                0
PCIe Max Read Request Size                    [4096B]
PCIe Latency Tolerance Reporting              [Enable]
PCI Minimum Secondary Bus Number             1
PCIe Extended Tag Enable                     [Enable]
PCIe AtomicOp Request Support                [Disable]
Breakpoint Type                              [None]
BIOS Guard                                  [Disabled]
Bios Guard Anti-Flash Wearout                [Disabled]
Serial Debug Message Level                   [Maximum]
Trace Messages                              [Disabled]
Training Messages                           [Disabled]
RC Promote Warnings                          [Enabled]
RC Promote MRC Warnings                      [Enabled]
Active Video                                [Offboard Device]
TargetVGA from CPU or from PCH               [From PCH]
RTC Wake system from S5                      [Enable]
  Wake up hour 时                            0
  Wake up minute 分                          0
  Wake up second 秒                          0

```

Enable or disable System wake on alarm event. When enabled, System will wake on the day::hr::min::sec specified

---

```

→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

```



# 安全启动

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Main Advanced IntelRCSetup Security Boot Save & Exit

## Password Description

If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.

If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.

The password length must be in the following range:

Minimum length	3
Maximum length	20

Administrator Password

User Password

► Secure Boot menu

Customizable Secure Boot settings

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Security

System Mode Setup  
Secure Boot Not Active  
Vendor Keys Not Active

Secure Boot [Enabled]  
Secure Boot Mode [Custom]  
▶ Key Management

Enables experienced users to modify Secure Boot variables

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit

## Security

Provision Factory Default keys [Disabled]

Install factory default Secure Boot keys when System is in Setup Mode

- ▶ Enroll all Factory Default keys
- ▶ Save all Secure Boot variables

Secure Boot variable	Size	Key#	Key source
▶ Platform Key(PK)	0	0	
▶ Key Exchange Keys	0	0	
▶ Authorized Signatures	0	0	
▶ Forbidden Signatures	1612	33	Custom
▶ Authorized TimeStamps			

Provision Factory Default keys  
 Disabled  
 Enabled

select Screen  
 select Item

Enter: Select  
 +/-: Change Opt.  
 F1: General Help  
 F2: Previous Values  
 F9: Optimized Defaults  
 F10: Save & Exit  
 ESC: Exit

## Boot Configuration

Setup Prompt Timeout **LOGO时间** 2  
Bootup NumLock State [On]  
Fast Boot [Disabled]  
  
Quiet Boot **开机LOGO** [Enabled]  
Build in Shell [Disabled]

## Boot Option Priorities

Number of seconds to wait for setup activation key.  
65535(0xFFFF) means indefinite waiting.

---

←→: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F9: Optimized Defaults  
F10: Save & Exit  
ESC: Exit