

# 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  
Compliancy 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  
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## Advanced

## Pc Health Status

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

---

→←: Select Screen  
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Enter: Select  
+/-: Change Opt.  
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# 温控

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Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
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- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
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- ▶ 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  
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# 4G解码 SR-IOV

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- ▶ 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  
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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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- ▶ 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]

Enable/Disable UEFI Network Stack

Lan Wake up Control 网络唤醒

[Enabled]

Network Stack

Disabled

Enabled

←→: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F9: Optimized Defaults

F10: Save &amp; Exit

ESC: Exit

# CSM兼容模式

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Main Advanced IntelRCSetup Security Boot Save & Exit

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- ▶ 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  
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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

Displays and provides option to change the Processor 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

## 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

# 睿频

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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 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]

Controls CPU frequency.

- ▶ 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

---

→←: 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 频率	[Auto]
MRC Promote Warnings	[Enabled]
Promote Warnings	[Enable]
Halt on mem Training Error	[Enabled]
Multi-Threaded MRC	[Auto]
ECC Support 内存ECC	[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
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- ▶ 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

## IntelRCSetup

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  
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# 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
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- ▶ Memory Configuration
- ▶ IIO Configuration
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- ▶ 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 & 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

## IntelRCSetup

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  
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# 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:

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→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
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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

```



## 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  
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F1: General Help  
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