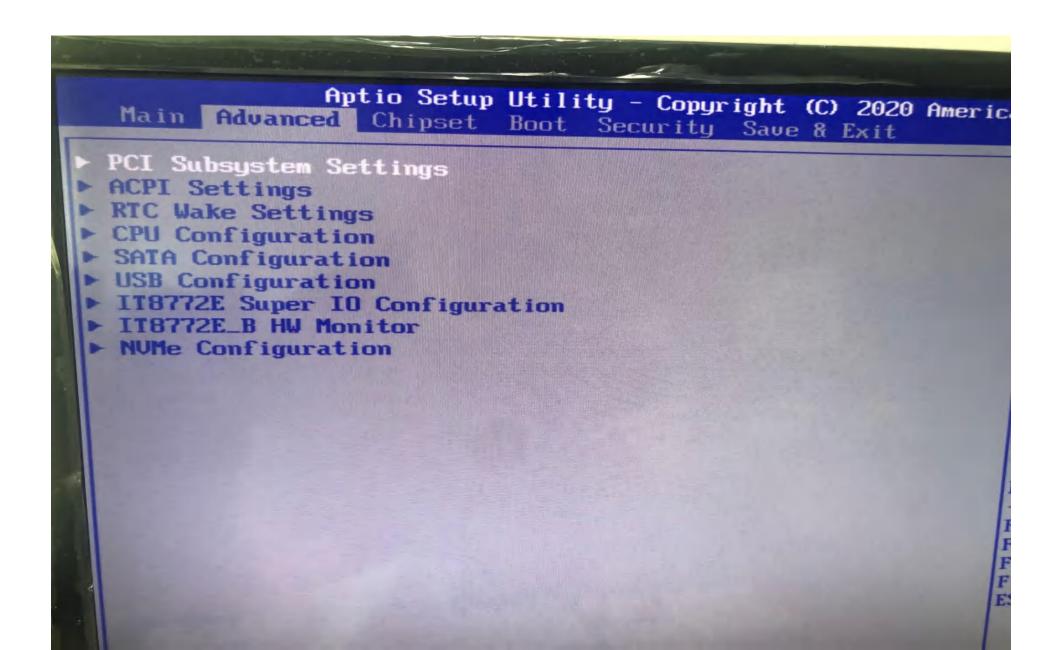
X79 4M

日期

MotherBoard Information BIOS Vendor Core Version Compliancy Project Version Build Date and Time	American Megatrends 4.6.5.4 UEFI 2.3.1: PI 1.2 HUANANZHI X79 0.06 x64 12/18/2019 15:37:52	Choos
Memory Information Total Memory System Language	8192 MB (DDR3)	
System Date System Time	[Tue 03/05/2019] [01:24:09]	→-: Se
Access Level	Administrator	†4: Se Enter: +/-: C F1: Ge F2: Pr F9: Op F10: S ESC: E

ABOVE 4G DECODING

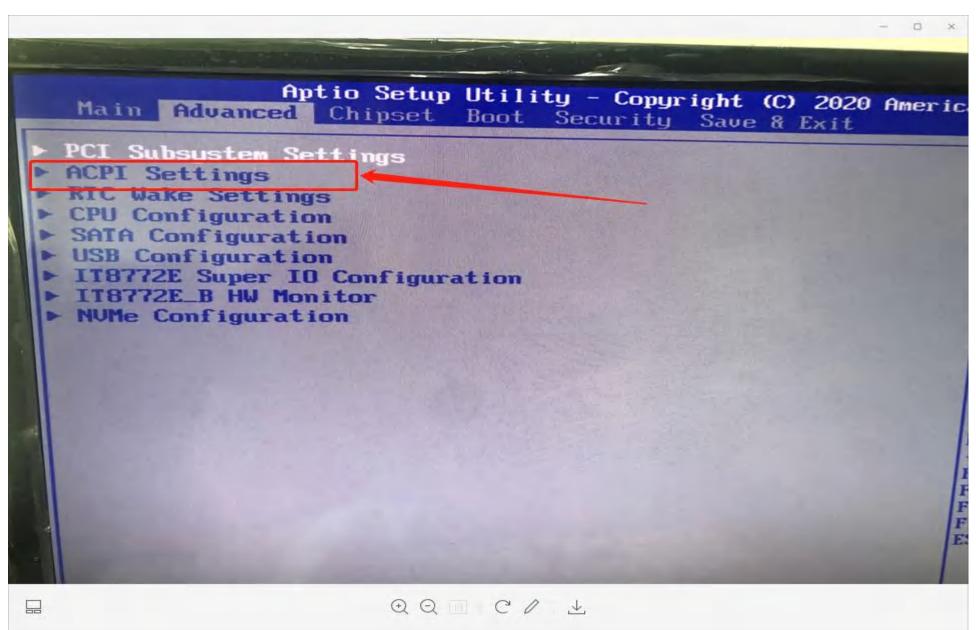


Aptio Setup Utility - Copyright (C) 2020 A

ESC: Ex

	Advanced Setup Utility	- Copyright (C) 2020 Amer	ican Mer
F	PCI Bus Driver Version	V 2.05.02	Ena
	PCI 64bit Resources Handling Pbove 4G Decoding PCI Common Settings	(Disabled)	cap in 1 (On. bit
i i	CI Latency Timer JGA Palette Snoop PERR# Generation SERR# Generation	[32 PCI Bus Clocks] [Disabled] [Disabled] [Disabled]	
► F	PCI Express Settings		: S
			†1: Si Enter +/-: (F1: Ge
			F2: Pr F9: Op F10: S

S1 睡眠



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ACPI Settings

Enable ACPI Auto Configuration

Enable Hibernation ACPI Sleep State Lock Legacy Resources [Disabled]

[Enabled]
[S1 only(CPU Stop Cl...]
[Disabled]

Selec syste SUSPE

**: Se †4: Se Enter +/-: (F1: Ge F2: Pr F9: Or F10: S

ESC:

定时开机

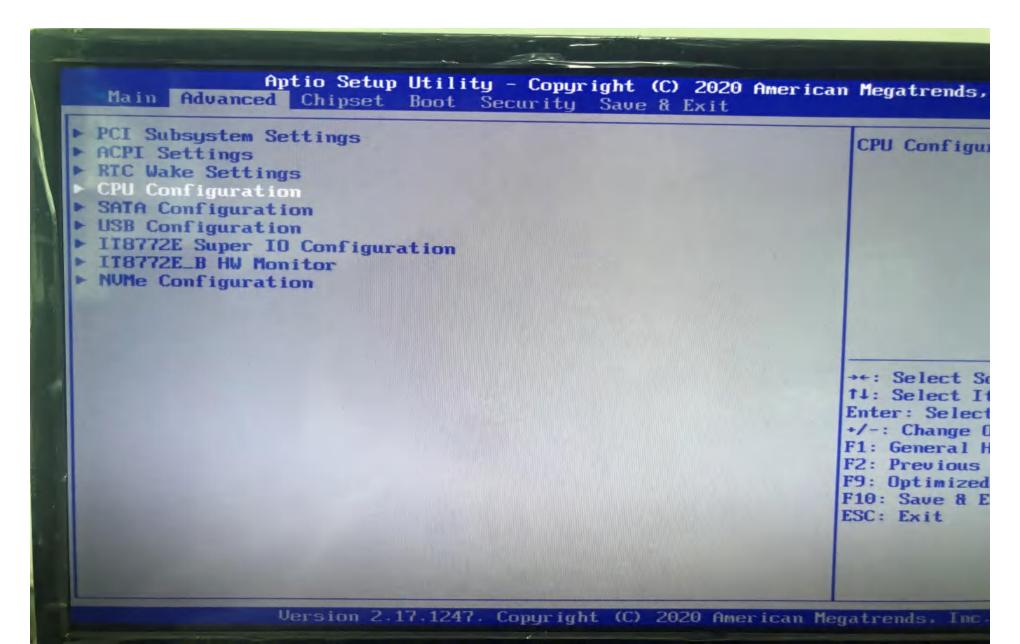
Aptio Setup Utility - Copyright (C) 2020 F Main Advanced Chipset Boot Security Save & Exit	American Megatrends
► PCI Subsystem Settings ► ACPI Settings ► RTC Wake Settings ► CPU Configuration ► SATA Configuration ► USB Configuration ► IT8772E Super IO Configuration ► IT8772E_B HW Monitor ► NUMe Configuration	Enable sys RTC alarm
	++: Select †4: Select Enter: Sele +/-: Change F1: General F2: Previous F9: Optimize F10: Save & ESC: Exit
Version 2.17.1247. Copyright (C) 2020 Amer	ican Megatrends, In

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navancea	13-3.0 (C) 2020 H	merican Mega
Wake up hour Wake up minute Wake up second Wake up day of month	[Enabled] 0 0 0 0	Enab on a Syst hr::

++: Se
tl: Se
Enter:
+/-: Cl
F1: Ger
F2: Pre
F9: Opt
F10: Sa
ESC: Ex

关闭超线程 开启核心数量



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CPU Configuration

► Socket 0 CPU Information

CPU Speed 64-bit

Hyper-threading
Active Processor Cores
Limit CPUID Maximum
Execute Disable Bit
Hardware Prefetcher
Adjacent Cache Line Prefetch
DCU Streamer Prefetcher
DCU IP Prefetcher
Intel Virtualization Technology
CPU Power Management Configuration

2600 MHz Supported

IEnabledl
[A11]
[Disabled]
[Enabled]
[Enabled]
[Enabled]
[Enabled]
[Enabled]
[Enabled]

Enabled for Linux (OS op Hyper-Thread and Disabled not optimized Hyper-Thread When Disabled per enabled of the Linux (OS optimized Section 1988).

→+: Select Sc: †↓: Select Iti Enter: Select +/-: Change Op F1: General He F2: Previous Up F9: Optimized F10: Save & Ex ESC: Exit

硬盘热拔插

 PCI Subsystem Settings ACPI Settings RIC Wake Settings CPU Configuration SATA Configuration USB Configuration IT8772E Super IO Configuration IT8772E_B HW Monitor NVMe Configuration 	ration	SATI
		++: †4: Ente: +/-: F1: 0 F2: 1 F9: 0 F10: ESC:

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SATA Configuration		SATA Ports Hot
SATA Port0 SATA Port1 SATA Port2 SATA Port3 SATA Port4 SATA Port5 SATA Mode	Not Present IAHCI Model IEnabled	
Port 0 Hot Plug Port 1 Hot Plug Port 2 Hot Plug Port 3 Hot Plug Port 4 Hot Plug Port 5 Hot Plug Port 5 Hot Plug External SATA Port 0 External SATA Port 1 External SATA Port 2 External SATA Port 3 External SATA Port 4 External SATA Port 5	Disabledl	**: Select Scre †1: Select Item Enter: Select +/-: Change Opt F1: General Hel F2: Previous Va F9: Optimized De F10: Save & Exit ESC: Exit

风扇温控

Aptio Setup Utility - Copyright (C) 2020 A Main Advanced Chipset Boot Security Save & Exit ► PCI Subsystem Settings ACPI Settings RTC Wake Settings CPU Configuration ► SATA Configuration ► USB Configuration IT8772E Super IO Configuration IT8772E_B HW Monitor NUMe Configuration

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Advanced

Pc Health Status

Smart Fan Function

Smart Fan Function
System temperature1

Fan1 Speed

UINO

AUCC

USB3

[Enabled]

: +53 C

: N/A

: +0.996 V

: +3.360 V

: +3.288 V

→+: Se

Smar

Enter:

+/-: C F1: Ge

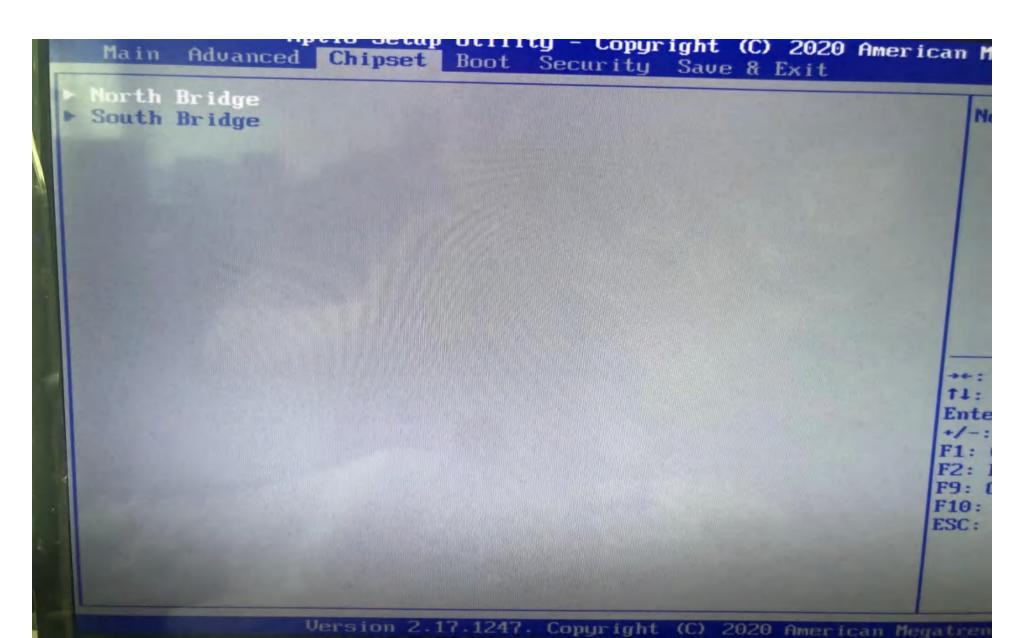
F2: Pr

F9: Op F10: S

ESC: E

Uersion 2 17 1247 Comunicht (C) 2020 American Megatrend

TV-D



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- ▶ IOH Configuration
- ▶ QPI Configuration

Compatibility RID

Memory Configuration

Current Memory Mode
Current Memory Speed
Mirroring
Sparing
Memory Mode
DRAM RAPL BWLIMIT
Perfmon and DFX devices
DRAM RAPL MODE
DDR Speed
Channel Interleaving
Rank Interleaving
Device Tagging
Altitude
Serial Message Debug Level

[Enabled]

65536 MB (DDR3)
Independent
1600 MHz
Not Possible
Supported
[Independent]
[1]
[HIDE]
[Disabled]
[Auto]
[Auto]
[Auto]
[Disabled]
[Object | Color | Colo

IOF

→+: : †↓: : Enter +/-:

F1: 6 F2: P: F9: 0 F10: 5

ESC:

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► Intel(R) VI for Directed I/O Configuration

Intel(R) I/OAT

DCA Support

Gen3 Equalization WA's

No Snoop Optimization

CDisabled Intelligence Intelligen

IOH O PCIe port Bifurcation Control

IOU1 - PCIe Port [x4x4]
PORT 1A Link Speed [GEN3]
PORT 1B Link Speed [GEN3]
IOU2 - PCIe Port [x16]
PCIEX16_1 Link Speed [GEN3]
IOU3 - PCIe Port [x16]
PCIEX16_2 Link Speed [GEN3]

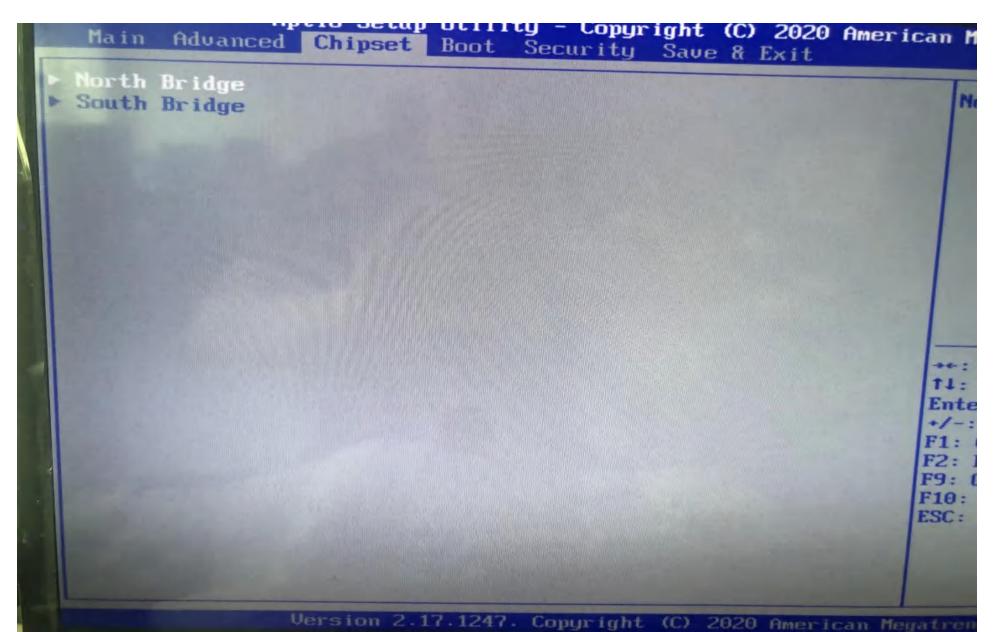
IOH O PCIe port Data Direct I/O Control

PORT 1A [Enabled]
PORT 1B [Enabled]
PORT 2A [Enabled]
PORT 3A [Enabled]

Intel(R) Configura

++: Select
†1: Select
Enter: Sele
+/-: Change
F1: General
F2: Previous
F9: Optimize
F10: Save &
ESC: Exit

内存频率



Aptio Setup Utility - Copyright (C) 2020 American Meg Chipset 10H Configuration QPI Configuration Compatibility RID [Enabled] Memory Configuration Total Memory 65536 MB (DDR3) Current Memory Mode Independent Current Memory Speed 1600 MHz Mirroring Not Possible Sparing Supported ---Memory Mode [Independent] TI: DRAM RAPL BULIMIT [1] Enter Perfmon and DFX devices [HIDE] +/-: DRAM RAPL MODE [Disabled] F1: 6 DDR Speed [Auto] F2: P Channel Interleaving LHutol F9: 0 Rank Interleaving [Auto] F10: Device Tagging [Disabled] ESC: Altitude [300 M] Serial Message Debug Level [Minimum]

AC启动

Main	A Advanced	ptio Setup Chipset	Utility Boot Se	- Copyr ecurity	ight (C) Save &	2020 A	merican	Megatre
	Bridge Bridge							South B
							I F F F	**: Selecti: Selecti: Selectific Change: Change: Change: Previous
		Version 2	13 1343	Conurid	it (C) 20	20 Ameri		SC: Exit

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PCH Information Name Stepping

SB Chipset Configuration PCH Compatibility RID SMBus Controller SW SMI Timer

Restore AC Power Loss PCIE Wake Control SLP S4 Assertion Stretch Enable SLP_S4 Assertion Width Unboard SATA RAID Oprom/Driver

Audio Configuration Azalia HD Audio Azalia internal HDMI codec

High Precision Event Timer Configuration High Precision Timer

► USB Configuration

Unknown UnKnown

[Disabled] [Enabled] [Auto]

Restore AC Power Loss Power Off Power On Last State

> [Enabled] [Disabled]

[Enabled]

Specify wh when power a power fa

Select Sc 4: Select It nter: Select +/-: Change 0

F1: General He F2: Previous F9: Optimized F10: Save & Ex

ESC: Exit

网卡启动

		Boot Securit		
Boot Configur Setup Prompt		2		OpRO filt
Bootup NumLoc		TO TO	ทวิ	1
Quiet Boot		DE:	nabledl	
Fast Boot		ED.	isabledl	
Boot Option P	riorities			
▶ CSM16 Paramet	ers			
CSM parameter				
				→+: : †1: :
				Enter
				+/-: F1: (
				F2: I
4				F10:
				ESC:

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Launch CSM
Boot option filter
Launch PXE OpROM policy
Launch Storage OpROM policy
Launch Video OpROM policy

Other PCI device ROM priority

[Enabled]

[UEFI and Legacy]
[Do not launch]

[Legacy only] [Legacy only]

CUEFI Opromi

- Launch PXE OpROM policy -

Do not launch UEFI only Legacy only

: Select

: Select

+/-: Chang

Controls

and Legac

F1: Genera

F2: Previo

F10: Save

ESC: Exit

网络唤醒默认打开没有开关选项