

Main Advanced IntelRCSetup Security Boot Save & Exit

BIOS Information

BIOS Vendor American Megatrends
Access Level Administrator

Memory Information

Total Memory 131072 MB

System Language [English]

System Date [Fri 07/08/2022]

System Time [16:00:31]

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

- ▶ ACPI Settings
- ▶ NCT5532D Super IO Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

System Super IO Chip
Parameters.

→←: Select Screen
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Advanced

NCT5532D Super IO Configuration

Super IO Chip

NCT5532D

► Serial Port 1 Configuration

Restore AC Power Loss

[Power Off]

Set Parameters of Serial Port
1 (COMA)

←→: Select Screen

↑↓: Select Item

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Monitor hardware status

→←: Select Screen
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Advanced

Pc Health Status

CPU temperature	: +40 °C
CPU Fan1 Speed	: 1212 RPM
System Fan1 Speed	: N/A
VCORE	: +1.808 V
memory	: +1.216 V
+12V	: +11.808 V
+5V	: +5.160 V
VBAT	: +3.280 V

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Smart Fan function setting

→←: Select Screen

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CPU Smart FanMode

[Auto Mode]

Smart Fan Mode Select

— CPU Smart FanMode —
Full on Mode
Manual Set Auto Mode
Manual Mode
Auto Mode

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PCI, PCI-X and PCI Express Settings.

→←: Select Screen
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Advanced

PCI Bus Driver Version A5.01.05

Value to be programmed into
PCI Latency Timer Register.

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

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Network Stack Settings

→←: Select Screen
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Advanced

Network Stack	UEFI网卡启动	[Enabled]
Ipv4 PXE Support		[Enabled]
Ipv6 PXE Support		[Disabled]
PXE boot wait time		0
Media detect count		1
Lan Wake up Control	网络唤醒	[Enabled]

Network Stack
Disabled
Enabled

Enable/Disable UEFI Network Stack

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

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Advanced

Compatibility Support Module Configuration

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 [Network]
Storage [Do not launch]
Video [UEFI]
Other PCI devices [Legacy]
[UEFI]Controls the execution of UEFI
and Legacy PXE OpROM

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- ▶ Processor Configuration
- ▶ Advanced Power Management Configuration
- ▶ Common RefCode Configuration
- ▶ QPI Configuration
- ▶ Memory Configuration
- ▶ IIO Configuration
- ▶ PCH Configuration
- ▶ OverClocking Feature
- ▶ 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

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Processor Configuration

▲ Change Per-Socket Settings

► Per-Socket Configuration 核心数

Processor Socket	Socket 0
Processor ID	000306F2
Processor Frequency	2.500GHz
Processor Max Ratio	19H
Processor Min Ratio	0CH
Microcode Revision	0000003D
L1 Cache RAM	768KB
L2 Cache RAM	3072KB
L3 Cache RAM	30720KB
Processor 0 Version	Intel(R) Xeon(R) CPU E5 -2678 v3 @ 2.50GHz

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]

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IntelRCSetup

- ▶ CPU Socket 0 Configuration
- ▶ CPU Socket 1 Configuration

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CPU Socket 0 Configuration

Cores Enabled

0

IOT Cfg Cbo Bitmap(Hex)

0

Number of Cores to Enable. 0 means all cores. 12 Cores available.

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↑↓: Select Item

Enter: Select

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Displays and provides option
to change the Memory Settings

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

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Integrated Memory Controller (iMC)

Enforce POR	[Auto]
PPR Type	[PPR Disabled]
PPR Error Injection test	[Disabled]
Memory Frequency	[Auto]
MRC Promote Warnings	[Enabled]
Promote Warnings	[Enable]
Halt on mem Training Error	[Enabled]
Multi-Threaded MRC	[Auto]
ECC Support	[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

▲ Enable to enforce POR restrictions for DDR4 frequency and voltage programming

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Setup Warning:

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Displays and provides option
to change the IIO Settings

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

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F10: Save & Exit

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IIO Configuration

PCIe Train by BIOS [yes]
PCIe Hot Plug [Disable]
PCIe ACPI Hot Plug [Disable]
EV DFX Features [Disable]

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

PCI Express Global Options

=====

TX EQ WA	[Enable]
DMI Vc1 Control	[Enable]
DMI Vcp Control	[Enable]
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)	[L1 Only]
PCIE Stop & Scream Support	[Disable]

▲ Assume IIO is strapped for
Wait-for-BIOS because straps
are unreliable in A-0 Silicon

↔: Select Screen
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Setup Warning:

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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

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

SATA devices and settings

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

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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]
Serial Debug Message Level	[Disable]
Trace Messages	[Disabled]
Training Messages	[Disabled]
RC Promote Warnings	[Enabled]
RC Promote MRC Warnings	[Enabled]
Active Video	[Onboard Device]
TargetVGA	Vga From CPU 0
RTC Wake system from S5	[Disable]

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

→+: Select Screen

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Enter: Select

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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

Set Administrator Password

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

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Boot Configuration

Setup Prompt Timeout

1

Bootup NumLock State

[On]

Fast Boot

[Disabled]

Show Full Logo

[Enabled]

Boot Option Priorities

Boot Option #1

[SATA0 P1: BR 256GB ...]

Hard Drive BBS Priorities

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

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Enter: Select

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