

Main

OC Tweaker

Advanced

Tool

H/W Monitor

Security

Boot

Exit

My Favorite

Target CPU / Cache / BCLK Speed

4800 MHz / 4500 MHz / 100.0000 MHz

Target AVX2 Speed

4800 MHz

Target Memory Speed

2666 MHz

Base Frequency Boost

125 W

CPU Configuration

DRAM Configuration

Voltage Configuration

User Profile 1: [ User Default 1 ]

User Profile 2: [ User Default 2 ]

User Profile 3: Empty

User Profile 4: Empty

User Profile 5: Empty

Save User Default

Load User Default

Save User UEFI Setup Profile to Disk

## Description

Install non-K series CPU to ASRock motherboard and enjoy the base frequency boost with the hidden power of processors immediately.

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## OC Tweaker\CPU Configuration

Target CPU / Cache / BCLK Speed 4800 MHz / 4500 MHz / 100.0000 MHz

Target AVX2 Speed 4800 MHz

Target Memory Speed 2666 MHz

## CPU Configuration

- AVX2 Ratio Offset Auto
- BCLK Spread Spectrum Disabled
- BCLK Aware Adaptive Voltage Enabled
- Boot Performance Mode Max Non-Turbo Perform...
- FCLK Frequency 800Mhz
- Ring to Core Ratio Offset Enabled
- Intel SpeedStep Technology Enabled
- Intel Turbo Boost Technology Enabled
- Intel Speed Shift Technology Disabled

## Description

AVX2 Ratio Offset. Specifies a negative offset from the CPU Ratio for AVX2 workloads. AVX2 is a more stressful workload. It is helpful to lower the AVX2 ratio to ensure maximum possible ratio for SSE workloads.

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## CPU Configuration

AVX2 Ratio Offset

Auto

BLCK Spread Spectrum

Disabled

BLCK Aware Adaptive Voltage

Enabled

Boot Performance Mode

Max Non-Turbo Perform...

FCLK Frequency

800Mhz

Ring to Core Ratio Offset

Enabled

Intel SpeedStep Technology

Enabled

Intel Turbo Boost Technology

Enabled

Intel Speed Shift Technology

Disabled

Intel Turbo Boost Max Technology 3.0

Auto

Intel Thermal Velocity Boost Voltage Optimizations

Enabled

## Description

This service controls thermal based voltage optimizations for processors that implement the Intel Thermal Velocity Boost (TVB) feature.

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## Advanced\CPU Configuration

Intel(R) Core(TM) i5-10600 CPU @ 3.30GHz

Processor ID

A0653

Microcode Revision

CC

Processor Max Speed

3300 MHz

Processor Min Speed

800 MHz

Processor Cores

6Core(s) / 12Thread(s)

Intel Hyper-Threading Technology

Enabled

Active Processor Cores

All

CPU C States Support

Enabled

Enhanced Halt State(C1E)

Auto

CPU C3 State Support

Auto

CPU C6 State Support

Auto

CPU C7 State Support

Auto

Package C State Support

Disabled

CFG Lock

Disabled

C6DRAM

Enabled

## Description

Intel Hyper-Threading Technology allows multiple threads to run on each core, so that the overall performance on threaded software is improved.

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## Advanced\CPU Configuration

- Intel Hyper Threading Technology
- Active Processor Cores
- CPU C States Support
- Enhanced Halt State (C1E)
- CPU C3 State Support
- CPU C6 State Support
- CPU C7 State Support
- Package C State Support
- CFG Lock
- C6DRAM
- CPU Thermal Throttling
- Intel Virtualization Technology
- Hardware Prefetcher
- Adjacent Cache Line Prefetch
- Software Guard Extensions (SGX)

Enabled

All

Enabled

Auto

Auto

Auto

Auto

Disabled

Disabled

Enabled

Enabled

Enabled

Enabled

Enabled

Disabled

## Description

Enabled/Disabled/Software Controlled  
Software Guard Extensions (SGX)

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## Advanced\Chipset Configuration

ME Firmware Version

14.5.12.1111

VT-d Capability

Supported

DMI Link Status

X4 Gen3

Primary Graphics Adapter

Onboard

Above 4G Decoding

Disabled

VT-d

Enabled

SR-IOV Support

Disabled

DMI Link Speed

Auto

PCIe1 Link Speed

Auto

PCIe2 Link Speed

Auto

PCIe3 Link Speed

Auto

PCI Express Native Control

Disabled

PCIe ASPM Support

Disabled

PCH PCIe ASPM Support

Disabled

DMI ASPM Support

Disabled

## Description

Select a primary VGA.

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Advanced\Chipset Configuration

DMI ASPM Support

Disabled

PCH DMI ASPM Support

Disabled

Share Memory

256M

IGPU Multi-Monitor

Enabled

Intel(R) Ethernet Connection I219-V

Enabled

Onboard HD Audio

Auto

Front Panel

HD

Onboard HDMI HD Audio

Disabled

Onboard WAN Device

Enabled

WAN Radio

Disabled

Bluetooth

Enabled

Deep Sleep

Disabled

## Description

Enable audio for the onboard digital outputs.

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◀ Advanced\Chipset Configuration

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Intel(R) Ethernet Connection I219-V

Enabled

Onboard HD Audio

Auto

Front Panel

HD

Onboard HDMI HD Audio

Disabled

Onboard WAN Device

Enabled

WAN Radio

Disabled

Bluetooth

Enabled

Deep Sleep

Disabled

Restore on AC/Power Loss

Power Off

Turn On Onboard LED in S5

Disabled

Restore Onboard LED Default

Disabled

RGB LED

Off

## Description

RGB LED

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◀ Advanced\Storage Configuration

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SATA Controller(s)

Enabled

SATA Mode Selection

AHCI

SATA Aggressive Link Power Management

Disabled

Hard Disk S.M.A.R.T

Enabled

SATA3\_0

: Not Detected

SATA3\_1

: Not Detected

SATA3\_2

: KINGSTON SA400S37480G

SATA3\_3

: Not Detected

SATA3\_4

: Not Detected

SATA3\_5

: Not Detected

M2\_1

: Not Detected

M2\_2

: Not Detected

## Description

Enable/disable the SATA controllers.

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Advanced\Intel(R) Thunderbolt

Discrete Thunderbolt(TM) Support

Disabled

## Description

Enable or Disable Discrete  
Thunderbolt(TM) Support.

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Advanced\ACPI Configuration

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Suspend to RAM

Auto

PS/2 Keyboard S4/S5 Wakeup Support

PCIe Devices Power On

I219 LAN Power On

RTC Alarm Power On

USB Keyboard/Remote Power On

USB Mouse Power On

Disabled

Disabled

Disabled

By OS

Disabled

Disabled

## Description

It is recommended to select auto for ACPI S3 power saving.

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## Advanced\USB Configuration

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USB Controllers:

1 XHCI

USB Devices:

2 Keyboards, 2 Mice, 1 Hub

Legacy USB Support

Enabled

XHCI Hand-off

Disabled

USB Single Port Control

USB Port1

Enabled

USB Port2

Enabled

USB3 Port1

Enabled

USB3 Port2

Enabled

USB3 Port3

Enabled

USB3 Port4

Enabled

USB3 Port5

Enabled

## Description

Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

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Advanced\Trusted Computing  
Configuration

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Security Device Support

Enable

NO Security Device Found

## Description

Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

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## Boot Option Priorities

Boot Option #1

OpenCore

Boot Option #2

UEFI OS (SATA3\_2: KIN...

Fast Boot

Disabled

Boot From Onboard LAN

Disabled

Setup Prompt Timeout

1

Bootup Num-Lock

On

Boot Beep

Disabled

Full Screen Logo

Enabled

AddOn ROM Display

Enabled

Boot Failure Guard Message

Enabled

CSM(Compatibility Support Module)

## Description

Sets the system boot order

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Boot\CSM(Compatibility Support Module)

CSM

Disabled

## Description

Enable to launch the Compatibility Support Module. If you are using Windows 8 or later versions 64-bit UEFI and all of your devices support UEFI, you may also disable CSM for faster boot speed.

CSM can provide compatibility with some older components. Before enabling CSM please install a PCIe graphics card with legacy VBIOS.

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