

AMD BIOS Guide

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Boot Screen

The following boot-up Logo screen will appear when your PC boots



Function Keys:

Press this key to enter BIOS setup

<F11>

Select boot devices

Main



BIOS Information

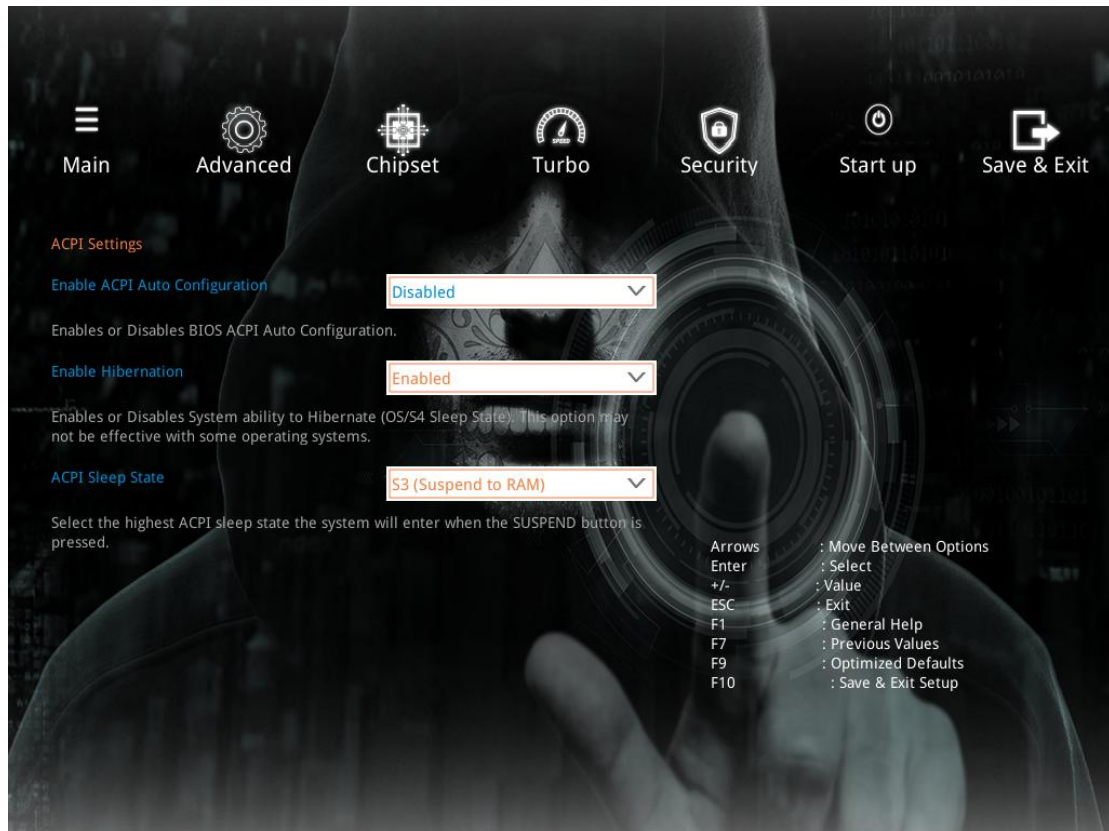
BIOS version can be checked here

Memory Information

Total memory info are showed here

Advance

ACPI Settings



Enable ACPI Auto Configuration

Enables or Disables BIOS ACPI Auto Configuration

Enable Hibernation

Enables or Disables System ability to Hibernate(OS/S4 Sleep State) This option may not be effective with some operating systems

ACPI Sleep State

Select the highest ACPI sleep state the system will enter when the SUSPEND button is Pressed

SATA Configuration



SATA Port Enable

Enabled / Disabled Serial ATA

SATA Mode

Select SATA type

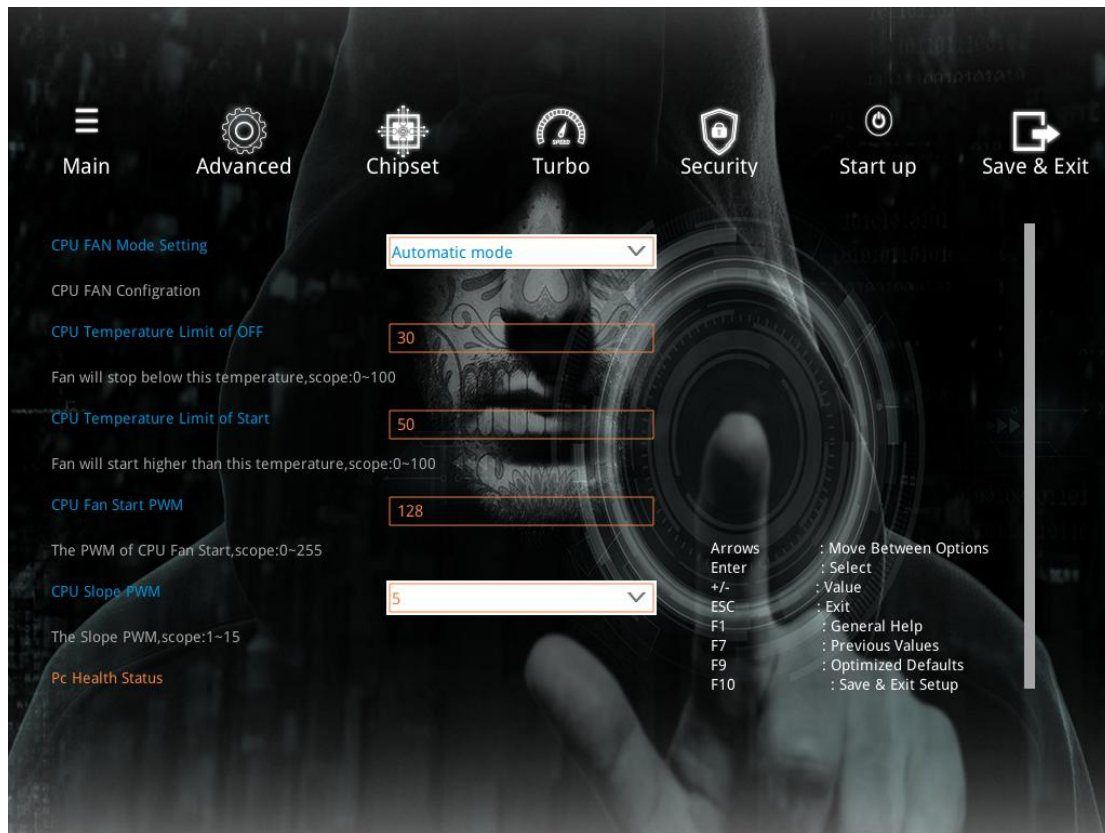
AHCI is recommended

SATA Information

NVMe Configuration

NVMe Device Options Settings

HW Monitor



CPU FAN Mode Setting

You can change your CPU Fan mode here

CPU Temperature Limit of OFF

Fan will stop below this temperature,scope:0~100

CPU Temperature Limit of Start

Fan will start higher than this temperature,scope:0~100 f f }

CPU Fan Start PWM

The PWM of CPU Fan Start, scope:0~255

CPU Slope PWM

The Slope PWM,scope:1~15

Power Management Configuration



Wake on PME

Enabled/Disabled Wake on PME.

Restore AC Power Loss

Specify what state to go to when power is re—applied after a power failure

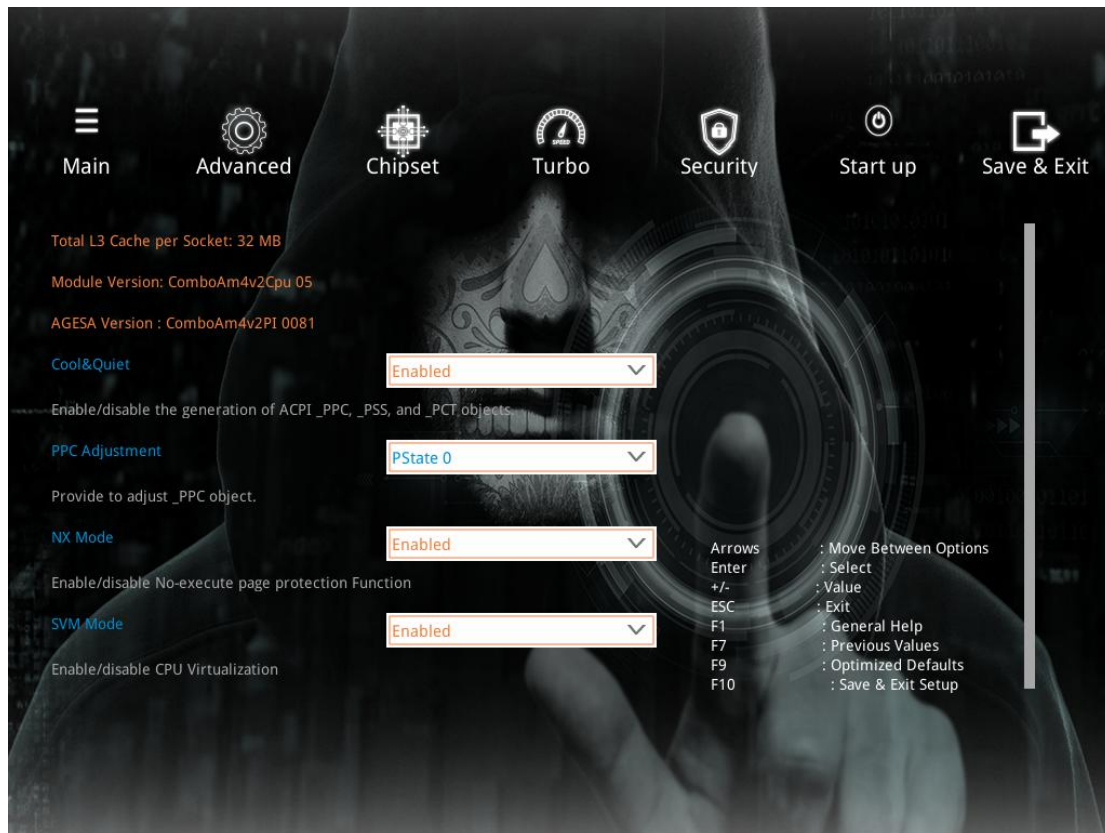
Wake system from S5

Enable or disable System wake on alarm event

ITE UVP/OVP Support

Enable/disable ITE UVP/OVP Function

CPU Configuration



Cool&Quiet

Enable or disable cool and quiet feature

PPC Adjustment

Adjust P-state mode

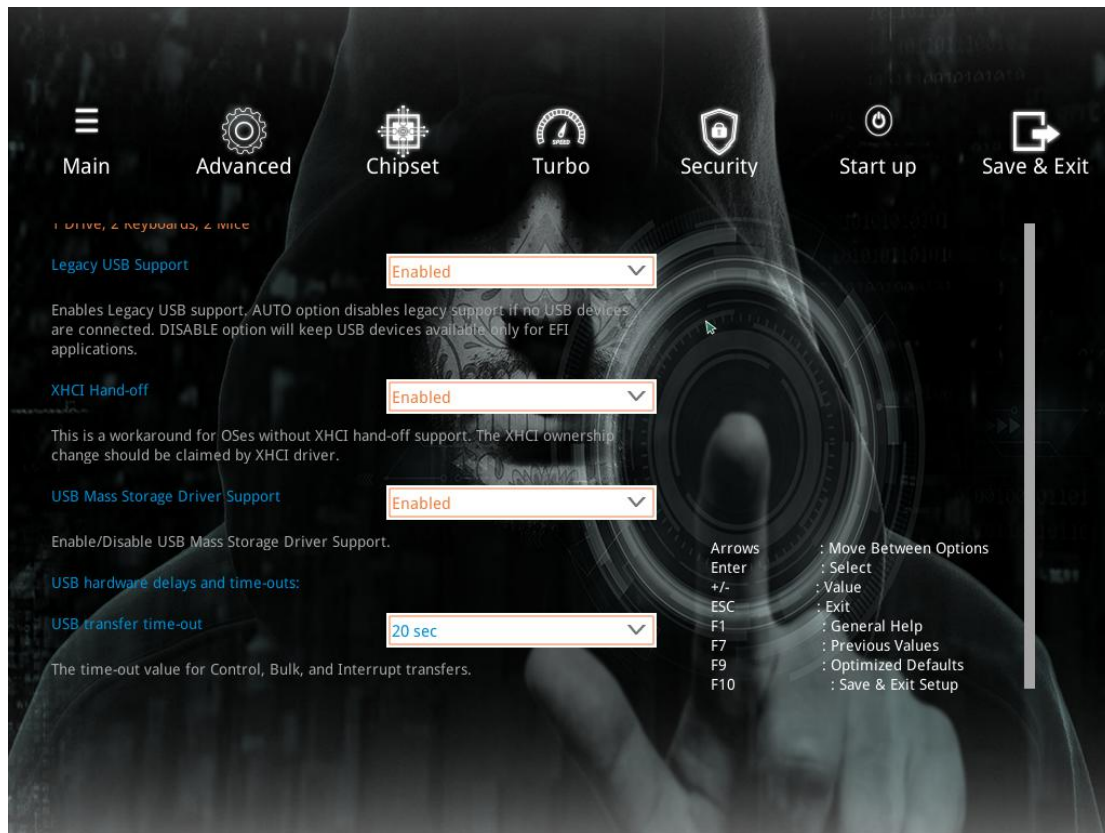
NX Mode

Enable or disable No-execute page protection function

SVM Mode

Enable or disable CPU Virtualization

USB Configuration



Legacy USB Support

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

XHCI Hand-off

This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.

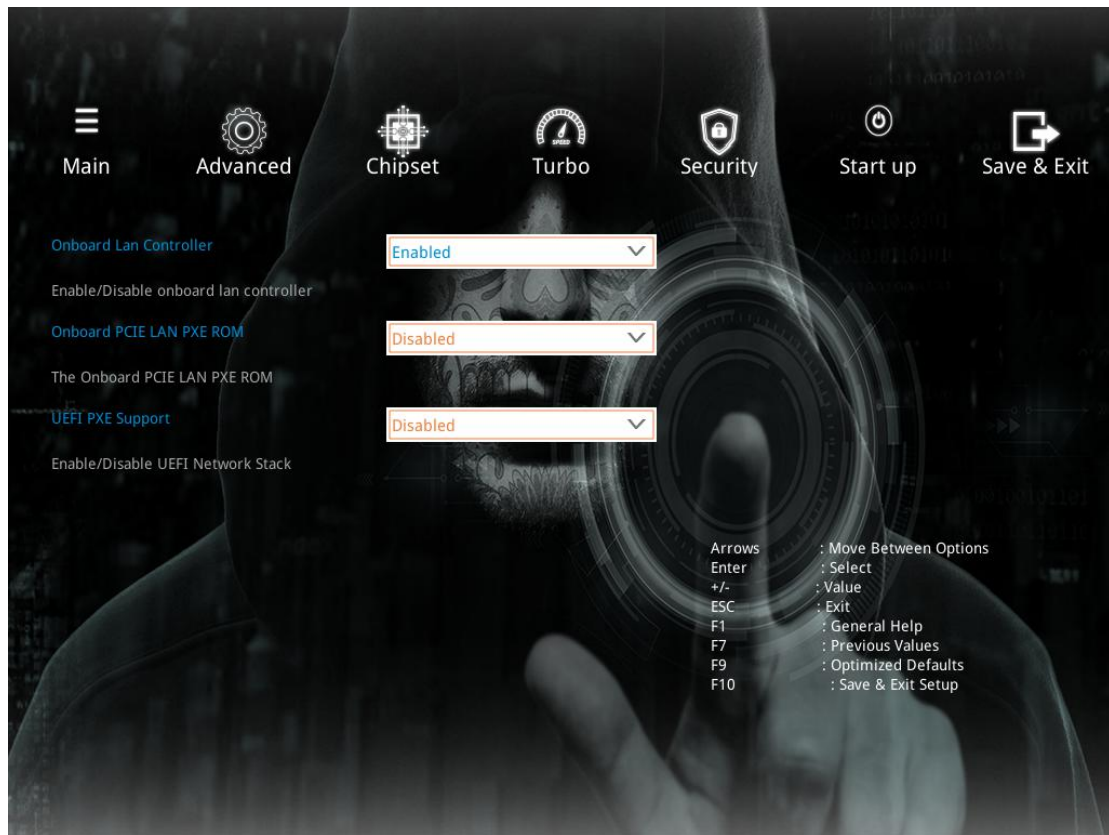
USB Mass Storage Driver Support

Enable or disable USB Mass Storage Driver Support. Keeping it enabled is recommended.

USB transfer time-out

The time-out value for Control, Bulk, and Interrupt transfers

No Disk



Onboard Lan Controller

Enable or disable Onboard Lan Controller

Onboard PCIE LAN PXE ROM

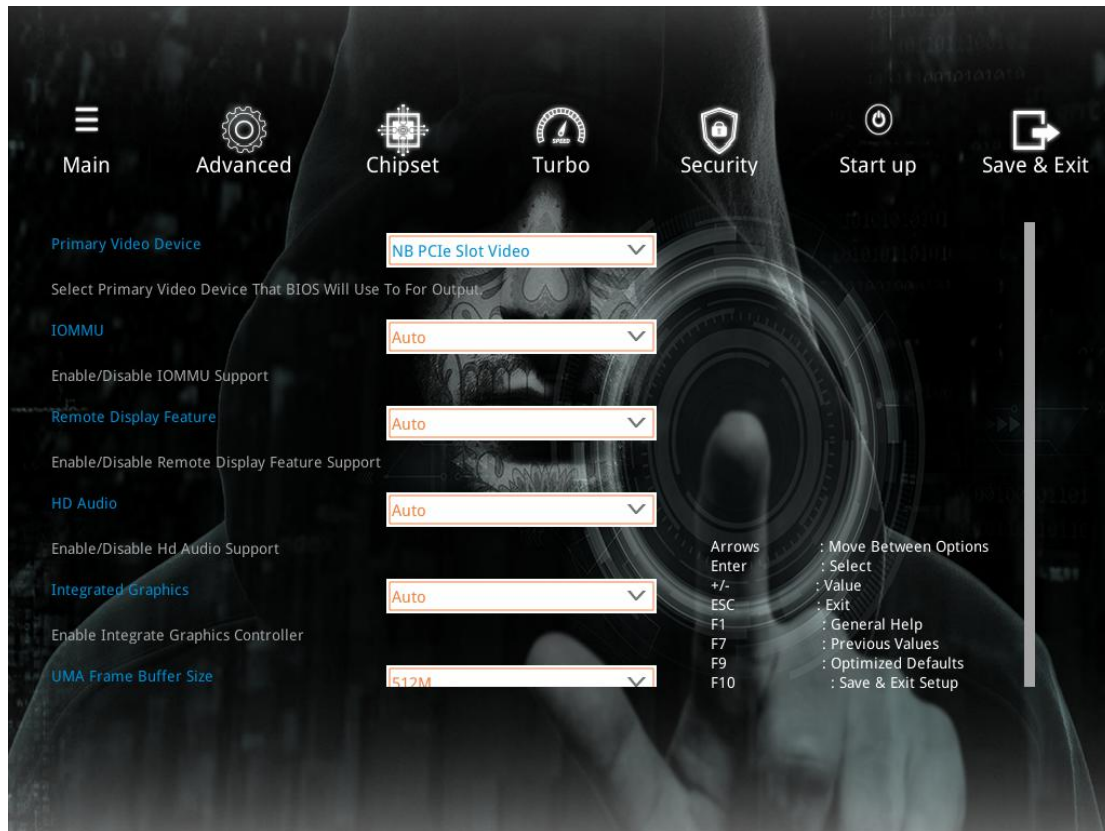
Enable or disable Onboard PCIE LAN PXE ROM

UEFI PXE Support

Enable or disable UEFI Network Stack

Chipset

GFX Configuration



Primary Video Device

Select Primary Video Device That BIOS Will Use to for output

IOMMU

Enable/Disable IOMMU Support

Remote Display Feature

Enable/Disable Remote Display Feature Support

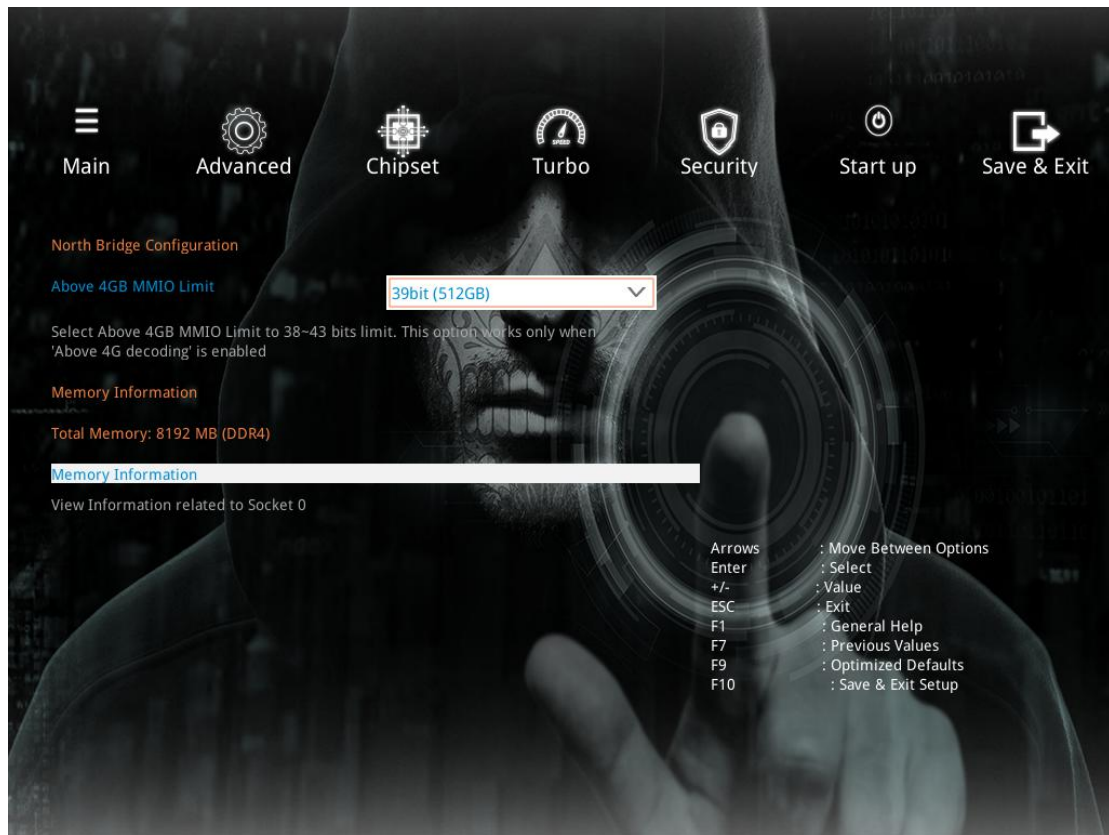
HD Audio

Enable/Disable HD Audio

Integrated Graphics

Enable Integrated Graphics Controller

North Bridge Configuration



Above 4GB MMIO Limit

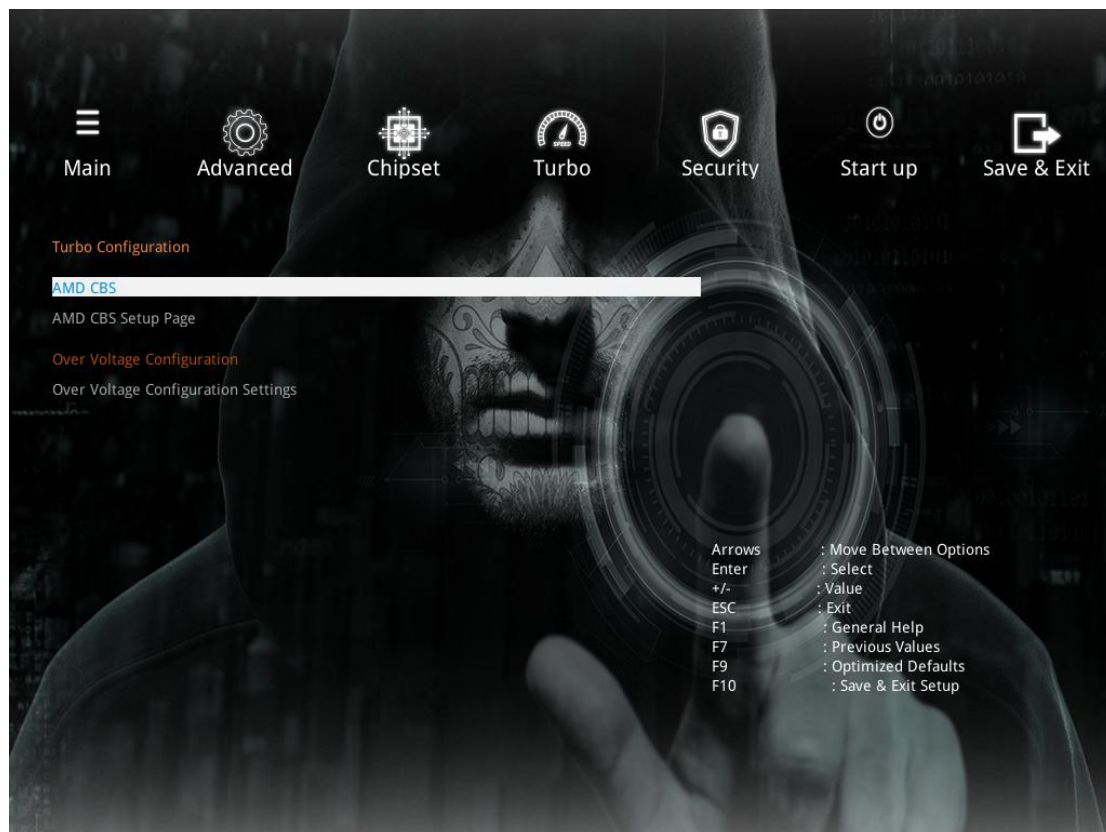
This option will affect mining performance. Leave it what the BIOS sets in most circumstance

Memory Information

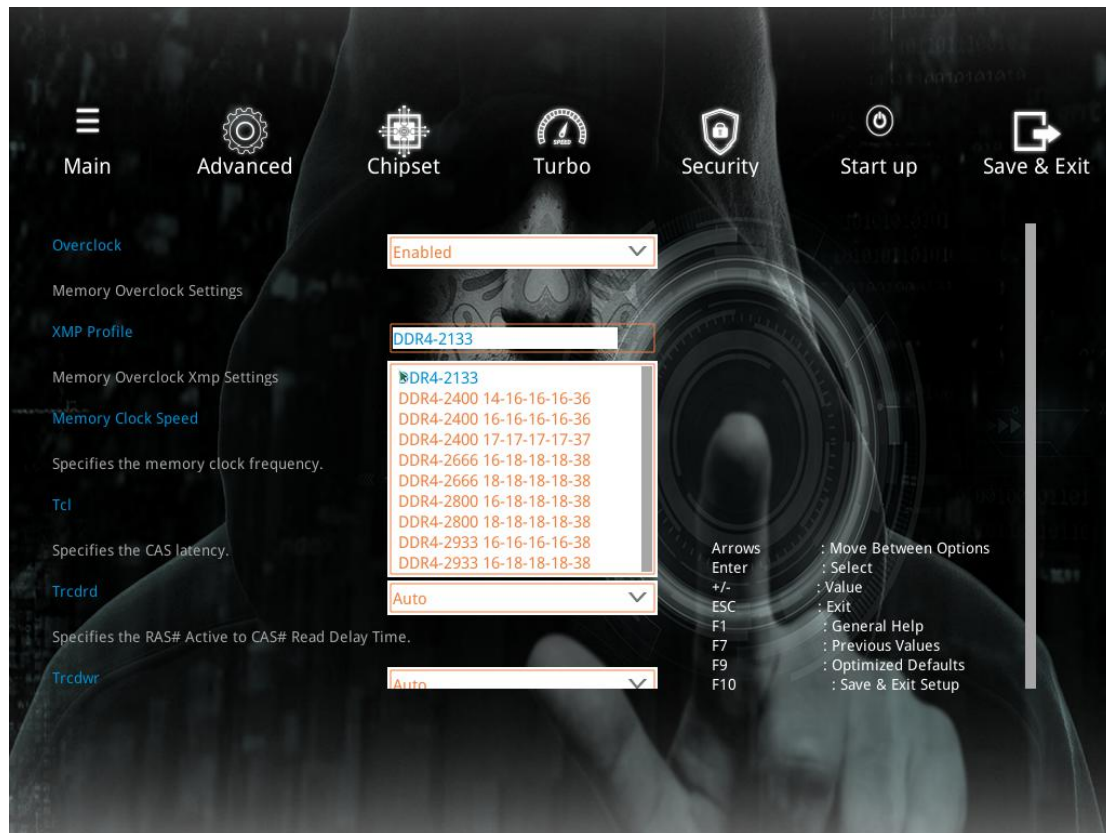
You can check some of info about memory here

Turbo

AMD CBS



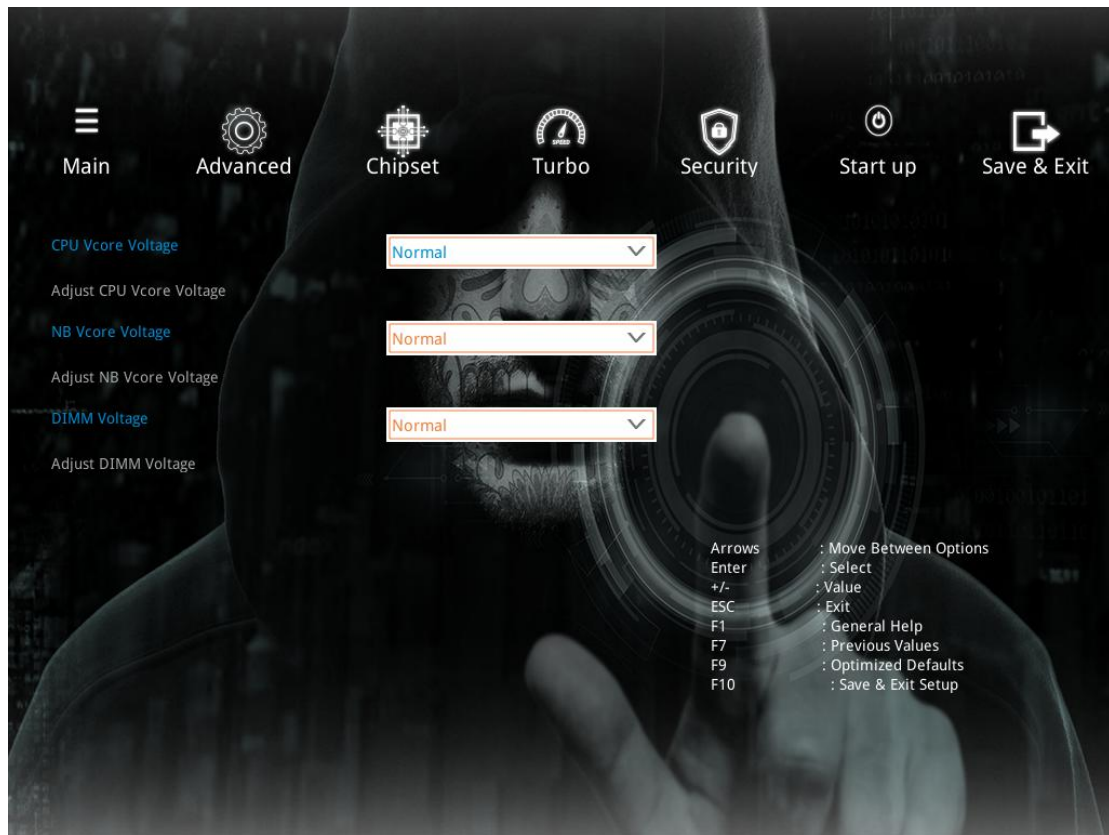
Memory Overclocking



You can overclock your memory here. The optimal memory frequency for 3rd Gen Ryzen processors are 3600MHz.

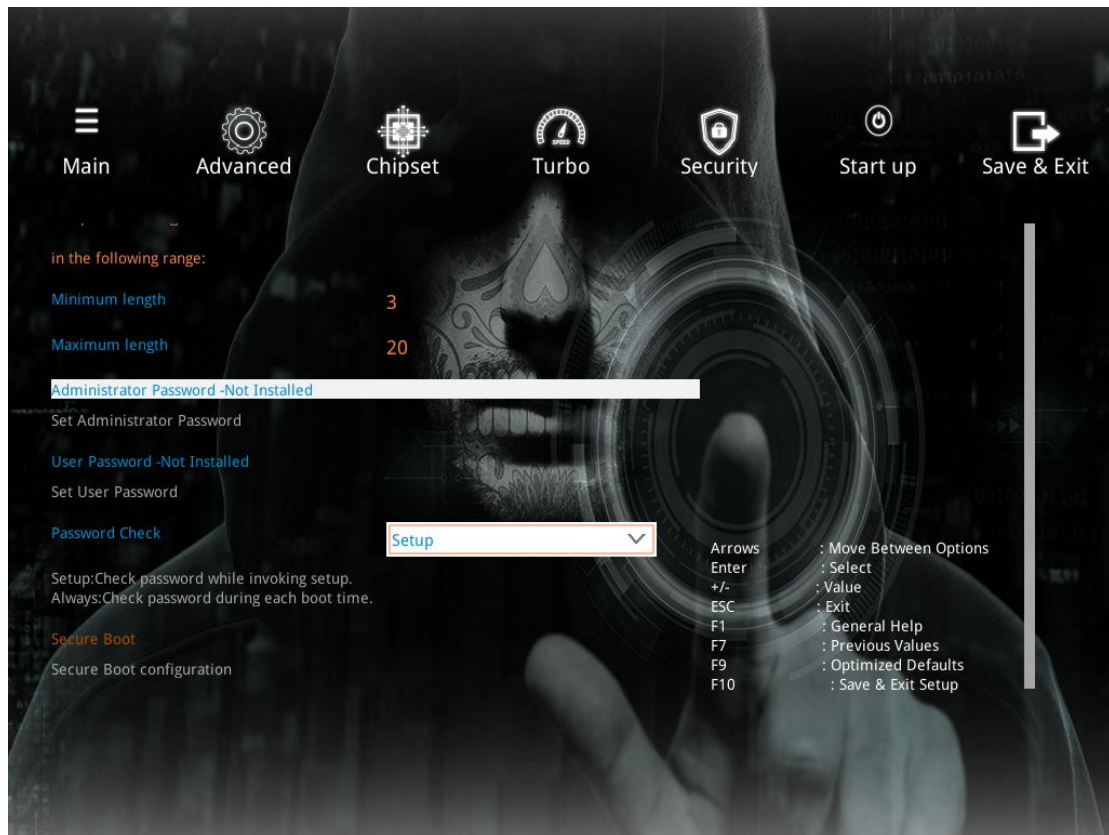
Not all memory can be overclocked, which depends on the quality of memory flash, motherboard layout and BIOS setting

Over Voltage Configuration



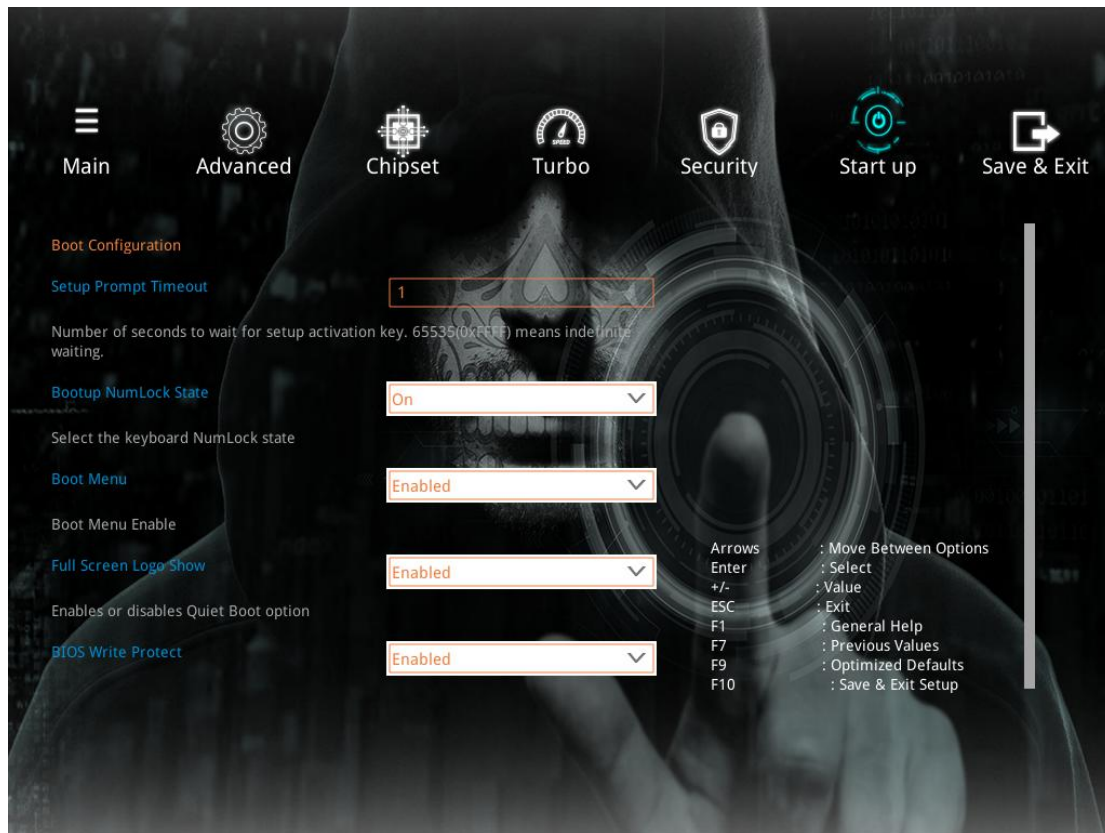
You can adjust CPU Vcore Voltage, NB Vcore Voltage and DIMM Voltage

Security



You can set your PC's boot-up password

Start-up



Setup prompt timeout

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

Bootup Numberlock State

Select the keyboard Numlock state

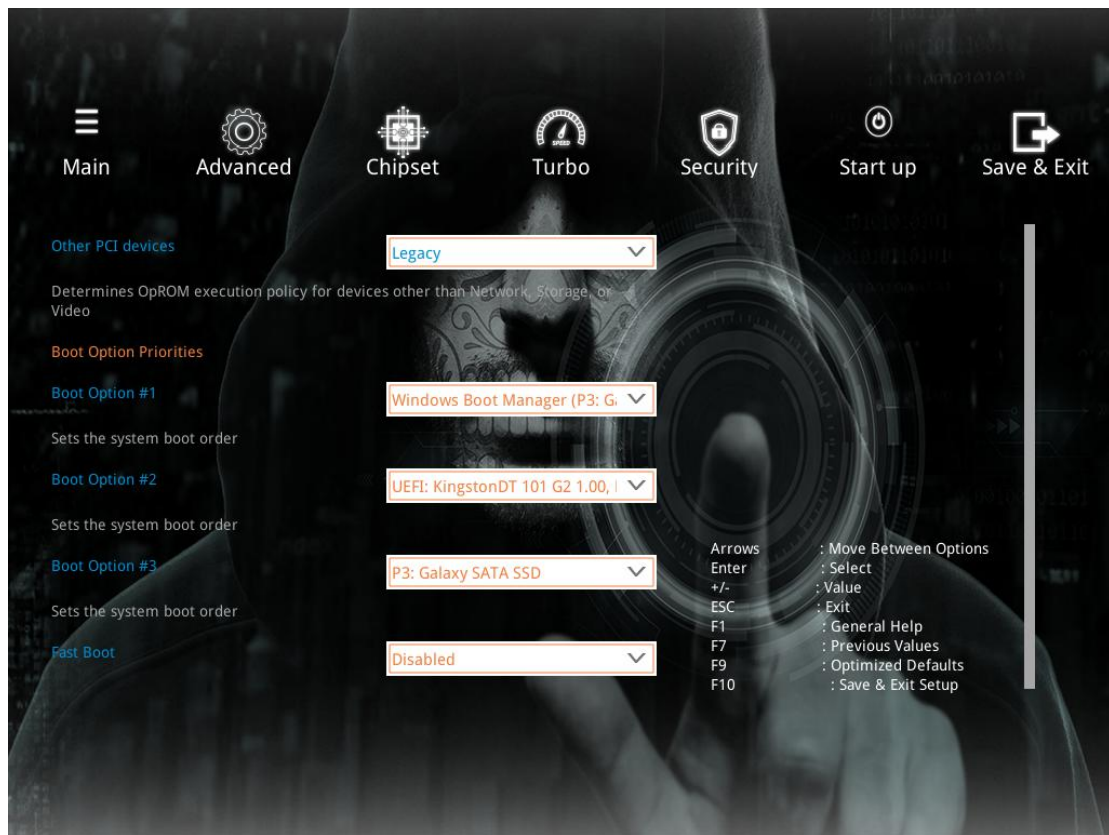
Boot Menu

Full Screen Logo Show

Enable or disable quiet boot option

BIOS Write Protection

If you want to update the bios, please first disable the BIOS Write Protection here



Boot Option Priority

You can set the system boot order here. The disk with OS should be set to 1st boot option and in most circumstances this setting can be done automatically.

Save & Exit



Save Changes and Exit

Exit system setup after saving the changes. You can also press F10 to do the same operation

Discard changes and Exit

Exit system setup without saving any changes

Save changes and reset

Reset system after saving the changes

Discard changes and Reset

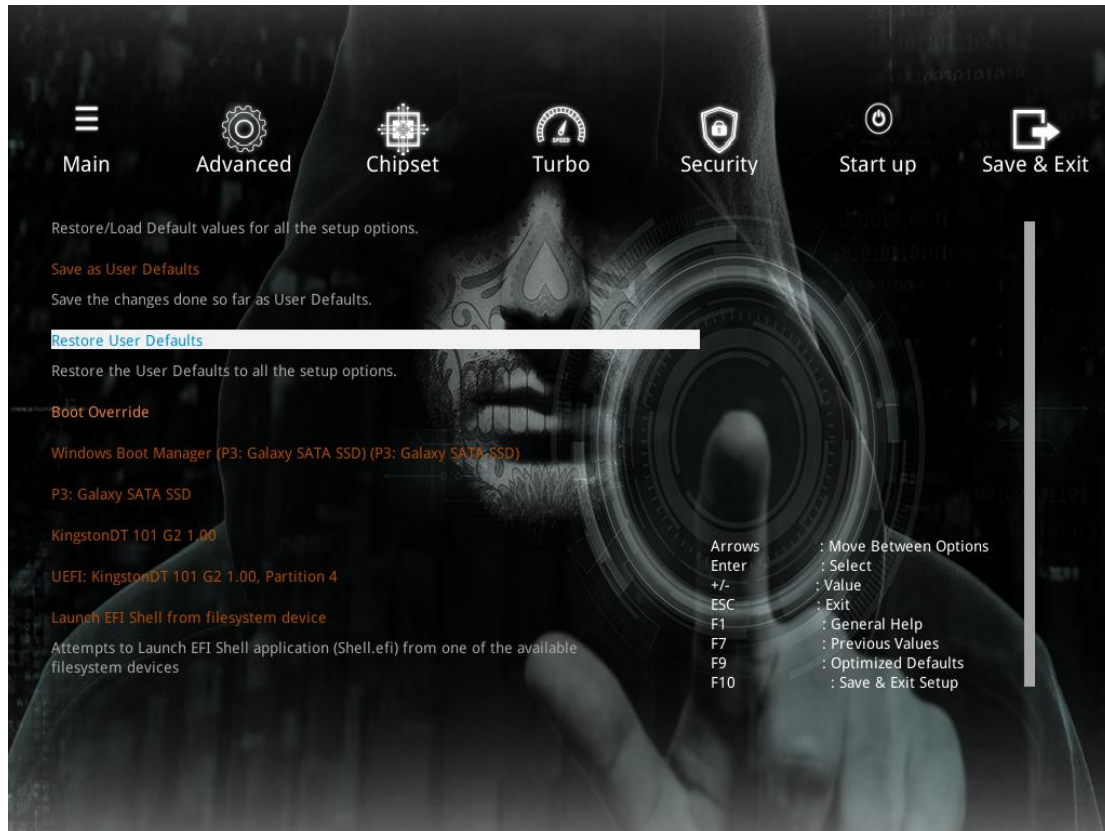
Reset system setup without saving any changes

Save changes

Save changes done so far to any of the setup option

Discard changes

Discard changes done so far to any of the setup option



Save as User default

Save changes done so far as user default

Restore user default

Restore the user default to all the setup options

Boot Override

You can directly select your boot devices here when you want to change boot device temporarily

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