

← Advanced\Platform Misc Configuration

Platform Misc Configuration

PCI Express Native Power Management

Native ASPM

PCH - PCI Express

PCH DMI ASPM

ASPM 0

L1 Substates

PCI Express Clock Gating

SA - PCI Express

DMI Link ASPM Control

PEG - ASPM

Hardware Monitor

CPU/Memory

Frequency 3600 MHz Temperature 33°C

BCLK 100.00 MHz Core Voltage 1.101 V

Ratio 36x DRAM Freq. 3200 MHz

DRAM Volt. 1.350 V Capacity 16384 MB

Prediction

Cooler 193 pts

NonAVX V req for 4300MHz Max nonAVX Stable 5034 MHz

AVX V req for 4300MHz Max AVX Stable 4914 MHz

Cache V req for 4300MHz Max Cache Stable 4873 MHz

Enable/Disable the control of Active State Power Management on SA side of the DMI Link.

Intel VT-x Technology	Supported
Intel SMX Technology	Supported
Software Guard Extensions (SGX)	Disabled
Tcc Offset Time Window	Auto
Hardware Prefetcher	Enabled
Adjacent Cache Line Prefetch	Enabled
Intel (VMX) Virtualization Technology	Enabled
Maximum CPU Core Temperature	Auto
Active Processor Cores	All
Hyper-Threading	Enabled
Thermal Monitor	Enabled

► CPU - Power Management Control

Hardware Monitor

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1.075 V	4914 MHz
Cache V req for 4300MHz	Max Cache Stable
1.113 V	4873 MHz

CPU - Power Management Control Options

Turbo Mode	Enabled
CPU C-states	Enabled
Enhanced C-states	Enabled
CPU C3 Report	Enabled
CPU C6 Report	Enabled
CPU C7 Report	CPU C7s
CPU C8 Report	Enabled
CPU C9 Report	Disabled
CPU C10 Report	Disabled
Package C State Limit	Cpu Default
CFG Lock	Disabled

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Configure MSR 0xE2[15], CFG Lock bit

← Advanced\System Agent (SA) Configuration

System Agent (SA) Configuration

System Agent Bridge Name CoffeeLake

SA PCIe Code Version 7.0.112.32

VT-d

Above 4G Decoding

> Memory Configuration

> Graphics Configuration

> DMI/OPI Configuration

> PEG Port Configuration

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← Advanced\System Agent (SA) Configuration\Memory Configuration

Memory Configuration

Memory Remap Disabled

Lpddr Dram Odt Auto

DDR4 Skip Refresh Enable Enabled

Late Command Training Relaxed Reset Disabled

Hardware Monitor

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Enable/Disable Relaxed JEDEC Reset during Late Command Training (Only for DDR4)

← Advanced\System Agent (SA) Configuration\Graphics Configuration

Graphics Configuration

Primary Display

PCIE

iGPU Multi-Monitor

Disabled

Hardware Monitor

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← Advanced\System Agent (SA) Configuration\DMI/OPI Configuration

DMI/OPI Configuration

DMI

DMI Max Link Speed

X4 Gen3

Auto

Hardware Monitor

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← Advanced\System Agent (SA) Configuration\PEG Port Configuration

PEG Port Configuration

PCIEX16_1

x16

PCIEX16_1 Link Speed

Auto

PCIEX16_2

Not Present

PCIEX16_2 Link Speed

Auto

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← Advanced\PCH-FW Configuration

TPM Device Selection

Discrete TPM

Hardware Monitor

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Intel LAN Controller	Enabled
Intel PXE Option ROM	Disabled
LED lighting	
When system is in working state	Aura Off
PCIEX16_3 Bandwidth	X2 Mode
Hyper M.2 X16: [Disable][Enable]	Disabled
Front Panel USB Type C Power Mode	Auto
USB power delivery in Soft Off state (S5)	Enabled
Back I/O USB Type C Power Mode	Auto

Serial Port Configuration

[AUTO]Power will be provided to USB 3.1 Gen2 Type-C ports automatically when a device is detected.
 [Enabled]: Power will always be on for USB 3.1 Gen2 Type-C ports.
 Note: Improper connection may damage the system permanently

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← Advanced\APM Configuration

ErP Ready	Disabled
Restore AC Power Loss	Power Off
Power On By PCI-E	Disabled
Power On By Ring	Disabled
Power On By RTC	Disabled

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Allow BIOS to switch off some power at S4/S5 to get the system ready for ErP requirement. When set to Enabled, all other PME options will be switched off. RGB LEDs and RGB/Addressable RGB Headers will also be disabled.

← Advanced\PCI Subsystem Settings

Above 4G Decoding Enabled

Re-Size BAR Support Disabled

SR-IOV Support Disabled

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If system has SR-IOV capable PCIe Devices, this option Enables or Disables Single Root IO Virtualization Support.

← Advanced\USB Configuration

USB Configuration

USB Controllers:

1 XHCI

USB Devices:

1 Drive, 2 Keyboard, 2 Mice, 5 Hubs

Legacy USB Support

Enabled

XHCI Hand-off

Enabled

Mass Storage Devices:

USB DISK 3.0 PMAP

Auto

➤ USB Port Disable Override

Hardware Monitor

CPU/Memory

Frequency 3600 MHz | Temperature 32°C

BCLK 100.00 MHz | Core Voltage 1.101 V

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DRAM Volt. 1.350 V | Capacity 16384 MB

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Selectively Enable/Disable the corresponding USB port from reporting a Device Connection to the controller.

← Boot\Boot Configuration

Boot Configuration

Fast Boot

Boot Logo Display

Bootup NumLock State

Wait For 'F1' If Error

Option ROM Messages

Interrupt 19 Capture

Setup Mode

Boot Sector (MBR/GPT) Recovery Policy

Next Boot Recovery Action

Hardware Monitor

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← Boot\CSM (Compatibility Support Module)

Compatibility Support Module Configuration

Launch CSM

Disabled

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← Boot\Secure Boot

Secure Boot state Disabled

Platform Key (PK) state Unloaded

OS Type Windows UEFI mode

► Key Management

Hardware Monitor

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> CSM (Compatibility Support Module)

> Secure Boot

Boot Option Priorities

Boot Option #1	UEFI OS (M.2_1: KXG50ZNV256G
Boot Option #2	UEFI: USB DISK 3.0 PMAP, Parti
Boot Option #3	UEFI: USB DISK 3.0 PMAP, Parti
Boot Option #4	Disabled

Boot Override

UEFI OS (M.2_1: KXG50ZNV256G TOSHIBA) (256.0GB)

UEFI: USB DISK 3.0 PMAP, Partition 1 (15.8GB)

UEFI: USB DISK 3.0 PMAP, Partition 2 (15.8GB)

AMI Native NVMe Driver Support **On** Off

i Enable/Disable AMI Native NVMe driver.

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- ASUS EZ Flash 3 Utility
- ASUS Secure Erase
- Setup Animator
- ASUS User profile
- ASUS SPD Information
- ASUS Armoury Crate
- Graphics Card Information

Disabled

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Be used to update BIOS