

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:08 | English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites

Main

Ai Tweaker

Advanced

Monitor

Boot

Tool

Exit

Hardware Monitor

Ai Overclock Tuner

Auto

ASUS MultiCore Enhancement

Auto

CPU Core Ratio

Auto

DRAM Odd Ratio Mode

Enabled

DRAM Frequency

DDR4-3066MHz

OC Tuner

Keep Current Settings

EPU and Performance Mode

Auto

CPU SVID Support

Auto

► DRAM Timing Control

► DIGI+ VRM

► Internal CPU Power Management

► Tweaker's Paradise

CPU

Frequency 3000 MHz Temperature 30°C

BCLK 100.0 MHz Core Voltage 0.992 V

Ratio 30x

Memory

Frequency 3066 MHz Voltage 1.500 V

Capacity 16384 MB

Voltage

+12V 12.192 V +5V 5.120 V

+3.3V 3.376 V



Tweaker's Paradise

Last Modified

EzMode(F7)|

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:08 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit

← Ai Tweaker\Internal CPU Power Management

Intel(R) SpeedStep(tm)

Turbo Mode

Turbo Mode Parameters

Long Duration Package Power Limit

Package Power Time Window

Short Duration Package Power Limit

IA AC Load Line

IA DC Load Line

Hardware Monitor

**CPU**

Frequency	Temperature
3000 MHz	30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio  
30x

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:08 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:09 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit

Hardware Monitor

← Advanced\Platform Misc Configuration

Platform Misc Configuration

PCI Express Native Power Management

Enabled

Native ASPM

Disabled

PCH - PCI Express

PCH DMI ASPM

Disabled

ASPM

Auto

SA - PCI Express

DMI Link ASPM Control

Disabled

PEG - ASPM

Auto

## CPU

Frequency Temperature  
3000 MHz 30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio

30x

## Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity  
16384 MB

## Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V  
3.376 V

Last Modified

EzMode(F7)

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.



# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019  
Monday

11:09

English

MyFavorite(F3)

Qfan Control(F6)

EZ Tuning Wizard(F11)

Hot Keys

My Favorites

Main

Ai Tweaker

Advanced

Monitor

Boot

Tool

Exit

Hardware Monitor

CPU C0 state

Supported

CPU C7 state

Supported

CPU C8 state

Supported

L1 Data Cache

32 KB x 4

L1 Instruction Cache

32 KB x 4

L2 Cache

256 KB x 4

L3 Cache

6 MB

Active Processor Cores

All

Intel Virtualization Technology

Disabled

Hardware Prefetcher

Enabled

Adjacent Cache Line Prefetch

Enabled

SW Guard Extensions (SGX)

Disabled

Tcc Offset Time Window

Auto

► CPU - Power Management Control

## CPU

Frequency Temperature  
3000 MHz 30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio

30x

## Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity  
16384 MB

## Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V  
3.376 V



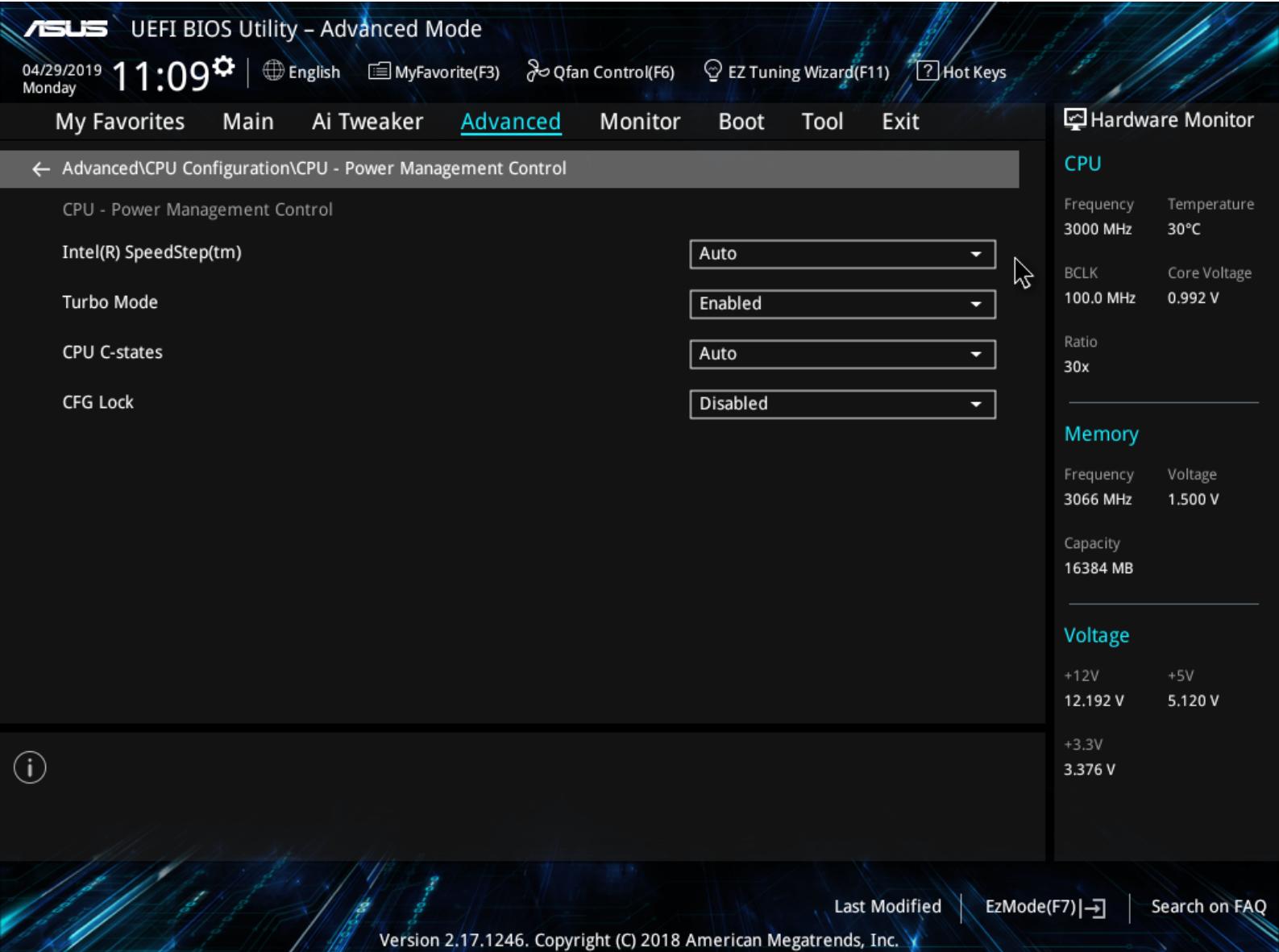
CPU - Power Management Control Options

Last Modified

EzMode(F7)

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.



**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:09 | English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker **Advanced** Monitor Boot Tool Exit

**Hardware Monitor**

← Advanced\System Agent (SA) Configuration

System Agent (SA) Configuration

System Agent Bridge Name: KabyLake

SA PCIe Code Version: 1.8.0.0

VT-d: Supported

VT-d: Enabled

Above 4G Decoding: Enabled

► Graphics Configuration

► DMI/OPI Configuration

► PEG Port Configuration

► Memory Configuration

(i)

**CPU**

Frequency	Temperature
3000 MHz	30°C

BCLK Core Voltage

100.0 MHz	0.992 V
-----------	---------

Ratio

30x
-----

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity

16384 MB
----------

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V

3.376 V
---------

Last Modified | EzMode(F7)| | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

**ASUS UEFI BIOS Utility – Advanced Mode**

04/29/2019 11:09 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker **Advanced** Monitor Boot Tool Exit

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

Graphics Configuration

Primary Display PCIE

iGPU Multi-Monitor Enabled

RC6(Render Standby) Enabled

DVMT Pre-Allocated 64M

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

(i)

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:10 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker **Advanced** Monitor Boot Tool Exit

← Advanced\PCH Configuration

Name	KBL PCH-H
Intel PCH SKU Name	Z270
PCH Stepping	A0
Hsio Revision	11

► PCI Express Configuration

IOAPIC 24-119 Entries

(i)

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	29°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

Last Modified | EzMode(F7)| | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:10 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit

← Advanced\SATA And RST Configuration

SATA And RST Configuration

Disabled

Hyper kit Mode

Enabled

SATA Controller(s)

AHCI

SATA Mode Selection

Disabled

Aggressive LPM Support

On Off

SMART Self Test

SATA6G\_1(Gray)

Empty

► SATA6G\_1(Gray)

Enabled

SATA6G\_1(Gray)

Disabled

SATA6G\_1 Hot Plug

Empty

SATA6G\_2(Gray)

► SATA6G\_2(Gray)

Last Modified

EzMode(F7)

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

Hardware Monitor

CPU

Frequency Temperature  
3000 MHz 29°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio

30x

Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity

16384 MB

Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V

3.376 V



**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:10 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker **Advanced** Monitor Boot Tool Exit

← Advanced\PCH-FW Configuration

Intel Platform Trust Technology

ME Operation Mode

(i)

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:11 | English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit

Hardware Monitor

← Advanced\Onboard Devices Configuration

HD Audio Controller

Enabled

HD Audio

SPDIF

Disabled

Disabled

M.2\_1 Configuration

Auto

Realtek LAN Controller

On Off

Realtek PXE OPROM

On Off

Charging USB devices in Power State S5

Enabled

► Serial Port Configuration

## CPU

Frequency Temperature  
3000 MHz 30°C

BCLK Core Voltage  
100.0 MHz 0.992 V

## Ratio

30x

## Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity  
16384 MB

## Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V  
3.376 V

Last Modified

EzMode(F7)|

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.



**ASUS UEFI BIOS Utility – Advanced Mode**

04/29/2019 11:11 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker **Advanced** Monitor Boot Tool Exit

← Advanced\Onboard Devices Configuration\Serial Port Configuration

Serial Port Configuration

Serial Port 1 On Off

---

**CPU**

Frequency	Temperature
3000 MHz	30°C

---

BCLK Core Voltage  
100.0 MHz 0.992 V

---

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

---

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

---

+3.3V	
3.376 V	

---

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019  
Monday

11:11

English

MyFavorite(F3)

Qfan Control(F6)

EZ Tuning Wizard(F11)

Hot Keys

My Favorites

Main

Ai Tweaker

Advanced

Monitor

Boot

Tool

Exit

Hardware Monitor

← Advanced\USB Configuration

USB Configuration

USB Controllers:

1 XHCI

USB Devices:

1 Drive, 1 Keyboard, 1 Mouse

Legacy USB Support

Disabled

USB Keyboard and Mouse Simulator

Disabled

Mass Storage Devices:

USBBest USB2FlashStorage0.00

Auto

► USB Single Port Control

## CPU

Frequency Temperature  
3000 MHz 31°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio

30x

## Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity  
16384 MB

## Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V  
3.376 V

Last Modified

EzMode(F7)

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.



# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019 11:11 | English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor **Boot** Tool Exit

Boot Configuration

Fast Boot **Disabled**

► Boot Configuration

► CSM (Compatibility Support Module)

► Secure Boot

Boot Option Priorities

Boot Option #1 **UEFI OS (Samsung SSD 970 EVO)**

Boot Option #2 **Windows Boot Manager (Samsung)**

Boot Option #3 **Windows Boot Manager (SATA6C)**

Boot Option #4 **Clover start bootmgfw.efi at EFI**

Boot Option #5 **UEFI: USBest USB2FlashStorage(**

**i** Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	31°C
BCLK	Core Voltage
100.0 MHz	0.992 V
Ratio	
30x	

**Memory**

Frequency	Voltage
3066 MHz	1.500 V
Capacity	
16384 MB	

**Voltage**

+12V	+5V
12.192 V	5.120 V
+3.3V	
3.376 V	

Last Modified

EzMode(F7)|

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

# ASUS UEFI BIOS Utility - Advanced Mode

04/29/2019  
Monday

11:12

English

MyFavorite(F3)

Qfan Control(F6)

EZ Tuning Wizard(F11)

Hot Keys

My Favorites

Main

Ai Tweaker

Advanced

Monitor

Boot

Tool

Exit

Hardware Monitor

← Boot\Boot Configuration

Boot Configuration

Auto

3 sec

Enabled

Enabled

Force BIOS

Disabled

EZ Mode

## CPU

Frequency Temperature  
3000 MHz 31°C

BCLK Core Voltage  
100.0 MHz 0.992 V

## Ratio

30x

## Memory

Frequency Voltage  
3066 MHz 1.500 V

Capacity  
16384 MB

## Voltage

+12V +5V  
12.192 V 5.120 V

+3.3V  
3.376 V

Last Modified

EzMode(F7)

Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.



**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:12 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor **Boot** Tool Exit

← Boot\CSM (Compatibility Support Module)

Compatibility Support Module Configuration

Launch CSM

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	31°C
BCLK	Core Voltage
100.0 MHz	0.992 V

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

(i)

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.

**ASUS UEFI BIOS Utility - Advanced Mode**

04/29/2019 11:12 English MyFavorite(F3) Qfan Control(F6) EZ Tuning Wizard(F11) Hot Keys

Monday

My Favorites Main Ai Tweaker Advanced Monitor **Boot** Tool Exit

← Boot\Secure Boot

Secure Boot state Enabled

Platform Key (PK) state Unloaded

OS Type

▶ Key Management

**Hardware Monitor**

**CPU**

Frequency	Temperature
3000 MHz	31°C

BCLK Core Voltage  
100.0 MHz 0.992 V

Ratio  
30x

---

**Memory**

Frequency	Voltage
3066 MHz	1.500 V

Capacity  
16384 MB

---

**Voltage**

+12V	+5V
12.192 V	5.120 V

+3.3V  
3.376 V

(i)

Last Modified | EzMode(F7) | Search on FAQ

Version 2.17.1246. Copyright (C) 2018 American Megatrends, Inc.