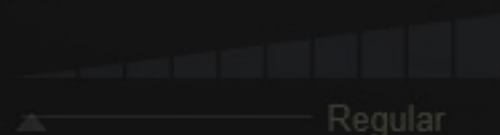


CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ Fixed CPU Switching Frequency

VRM Spread Spectrum

ON OFF



VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



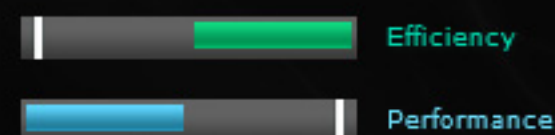
VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



CPU Power Phase Control

- (1) Standard: Phase control based on CPU command.
 (2) Optimized: ASUS optimized phase tuning profile.
 (3) Extreme: Full phase mode.
 (4) Power Phase Response: Phase number adjusted by current(A) step.



* Do not remove the thermal module when switching to Extreme and Manual mode. The thermal conditions should be monitored.

* Set Manual Adjustment to a fast phase response to increase system performance or to a slow phase response to increase CPU power efficiency.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.149 V
 VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.220 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
 MotherBoard 33.0 °C
 PCH 53.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



Fan

CPU fan 0585 rpm
 CPU_OPT 605 rpm
 COV Fan 0 rpm
 Chassis fan 1 799 rpm
 Chassis fan 2 604 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ Fixed CPU Switching Frequency

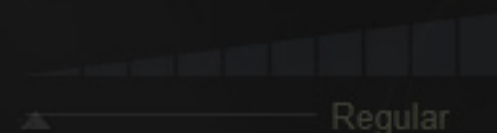
VRM Spread Spectrum

ON OFF



VDDSOC Phase Control

- ☐ Standard
☒ Optimized
☐ Extreme
☐ Power Phase Response



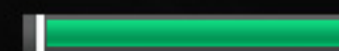
VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



VDDSOC Phase Control

- (1) Standard: Phase control based on CPU command.
 (2) Optimized: ASUS optimized phase tuning profile.
 (3) Extreme: Full phase mode.
 (4) Power Phase Response: Phase number adjusted by current(A) step.



Efficiency



Performance

* Do not remove the thermal module when switching to Extreme and Manual mode. The thermal conditions should be monitored.

* Set Manual Adjustment to a fast phase response to increase system performance or to a slow phase response to increase CPU power efficiency.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
 100.0 x 36 (7.9 watts)



Voltage

CPU Core Voltage **1.128** V

VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.199 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU **050.0** °C

MotherBoard 33.0 °C
 PCH 53.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



Fan

CPU fan **0613** rpm

CPU_OPT 667 rpm
 COV Fan 0 rpm
 Chassis fan 1 813 rpm
 Chassis fan 2 641 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

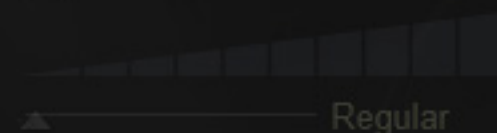
- ☒ Auto
 VRM Spread Spectrum

☐ Fixed CPU Switching Frequency



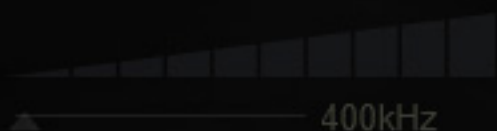
VDDSOC Phase Control

- ☐ Standard
☐ Optimized
☒ Extreme
☐ Power Phase Response



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



VDDSOC Phase Control

- (1) Standard: Phase control based on CPU command.
 (2) Optimized: ASUS optimized phase tuning profile.
 (3) Extreme: Full phase mode.
 (4) Power Phase Response: Phase number adjusted by current(A) step.



Efficiency



Performance

* Do not remove the thermal module when switching to Extreme and Manual mode. The thermal conditions should be monitored.

* Set Manual Adjustment to a fast phase response to increase system performance or to a slow phase response to increase CPU power efficiency.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
 100.0 x 36 (4.5 watts)



Voltage

CPU Core Voltage **1.128** V
 VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.199 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU **049.0** °C
 MotherBoard 33.0 °C
 PCH 53.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



Fan

CPU fan **0585** rpm
 CPU_OPT 620 rpm
 COV Fan 0 rpm
 Chassis fan 1 799 rpm
 Chassis fan 2 615 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ Fixed CPU Switching Frequency

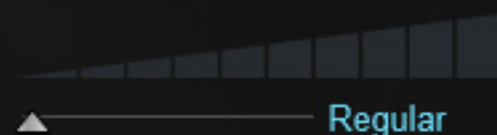
VRM Spread Spectrum

ON OFF



VDDSOC Phase Control

- ☐ Standard
☐ Optimized
☐ Extreme
☒ Power Phase Response



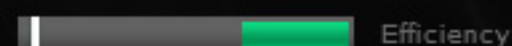
VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



VDDSOC Phase Control

- (1) Standard: Phase control based on CPU command.
 (2) Optimized: ASUS optimized phase tuning profile.
 (3) Extreme: Full phase mode.
 (4) Power Phase Response: Phase number adjusted by current(A) step.



* Do not remove the thermal module when switching to Extreme and Manual mode. The thermal conditions should be monitored.

* Set Manual Adjustment to a fast phase response to increase system performance or to a slow phase response to increase CPU power efficiency.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.128V
 VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.199 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
 MotherBoard 33.0 °C
 PCH 53.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



Fan

CPU fan 0583 rpm
 CPU_OPT 600 rpm
 COV Fan 0 rpm
 Chassis fan 1 797 rpm
 Chassis fan 2 603 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ Fixed CPU Switching Frequency

VRM Spread Spectrum

ON OFF



VDDSOC Phase Control

- ☐ Standard
☐ Optimized
☐ Extreme
☒ Power Phase Response



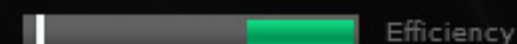
VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



VDDSOC Phase Control

- (1) Standard: Phase control based on CPU command.
 (2) Optimized: ASUS optimized phase tuning profile.
 (3) Extreme: Full phase mode.
 (4) Power Phase Response: Phase number adjusted by current(A) step.



Efficiency



Performance

* Do not remove the thermal module when switching to Extreme and Manual mode. The thermal conditions should be monitored.

* Set Manual Adjustment to a fast phase response to increase system performance or to a slow phase response to increase CPU power efficiency.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
 100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage **1.128** V

VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.220 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU **050.0** °C

MotherBoard 33.0 °C
 PCH 53.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



Fan

CPU fan **0604** rpm

CPU_OPT 624 rpm
 COV Fan 0 rpm
 Chassis fan 1 796 rpm
 Chassis fan 2 618 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ VRM Spread Spectrum
☐ Fixed CPU Switching Frequency

ON OFF



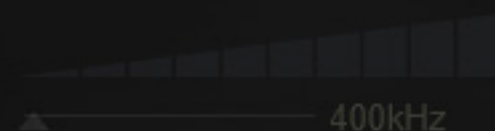
VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



VDDSOC Switching Frequency

Changing the frequency affects the transient response and component thermal conditions. Higher frequency gets quicker transient response.



★ For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 050.0 °C

MotherBoard 33.0 °C
PCH 53.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0603 rpm

CPU_OPT 622 rpm
COV Fan 0 rpm
Chassis fan 1 785 rpm
Chassis fan 2 620 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ VRM Spread Spectrum
☐ Fixed CPU Switching Frequency

ON OFF



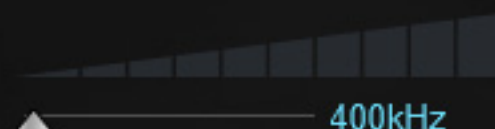
VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Switching Frequency

- ☐ Auto
☒ Fixed VDDSOC Switching Frequency



VDDSOC Switching Frequency

Changing the frequency affects the transient response and component thermal conditions. Higher frequency gets quicker transient response.



★ For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C. Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 050.0 °C

MotherBoard 33.0 °C
PCH 53.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0603 rpm

CPU_OPT 623 rpm
COV Fan 0 rpm
Chassis fan 1 785 rpm
Chassis fan 2 618 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ VRM Spread Spectrum
☐ Fixed CPU Switching Frequency

ON OFF



VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Switching Frequency

- ☐ Auto
☒ Fixed VDDSOC Switching Frequency



VDDSOC Switching Frequency

Changing the frequency affects the transient response and component thermal conditions. Higher frequency gets quicker transient response.



System Stability

Increase O.C. Range



★ For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C. Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (5.6 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C

MotherBoard 33.0 °C
PCH 53.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0583 rpm

CPU_OPT 611 rpm
COV Fan 0 rpm
Chassis fan 1 785 rpm
Chassis fan 2 610 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Phase Control

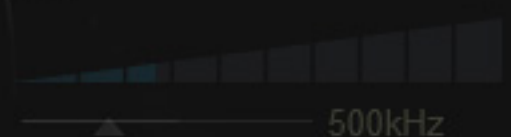
- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ VRM Spread Spectrum
☐ Fixed CPU Switching Frequency

ON OFF



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



CPU VRM Switching Frequency

Enable Spread Spectrum to enhance system stability.



* For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.149 V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 052.0 °C
MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0600 rpm
CPU_OPT 606 rpm
COV Fan 0 rpm
Chassis fan 1 783 rpm
Chassis fan 2 612 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☒ Auto
☐ VRM Spread Spectrum
☐ Fixed CPU Switching Frequency

ON OFF



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



CPU VRM Switching Frequency

Enable Spread Spectrum to enhance system stability.



System Stability

Increase O.C. Range



* For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 052.0 °C

MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0653 rpm

CPU_OPT 622 rpm
COV Fan 0 rpm
Chassis fan 1 793 rpm
Chassis fan 2 622 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



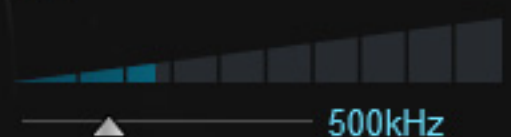
VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☐ Auto
VRM Spread Spectrum
ON OFF
☒ Fixed CPU Switching Frequency



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



CPU VRM Switching Frequency

Enable Spread Spectrum to enhance system stability.



* For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (2.3 watts)



Voltage

CPU Core Voltage 1.128V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0584 rpm
CPU_OPT 602 rpm
COV Fan 0 rpm
Chassis fan 1 783 rpm
Chassis fan 2 608 rpm

CPU

DRAM

CPU Power Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



CPU VRM Switching Frequency

- ☐ Auto
 VRM Spread Spectrum

☒ Fixed CPU Switching Frequency



VDDSOC Phase Control

- ☒ Standard
☐ Optimized
☐ Extreme
☐ Power Phase Response



VDDSOC Switching Frequency

- ☒ Auto
☐ Fixed VDDSOC Switching Frequency



CPU VRM Switching Frequency

Enable Spread Spectrum to enhance system stability.



System Stability Increase O.C. Range



* For CPU Fixed Frequency Mode, assign a fixed high CPU frequency to increase O.C. Range or a low VRM frequency for better system stability.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128V
 VDDSOC Voltage 1.090 V
 DRAM Voltage AB 1.199 V
 DRAM Voltage CD 1.220 V
 1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
 MotherBoard 33.0 °C
 PCH 54.0 °C
 T_Sensor N/A
 EXT_Sensor1 N/A



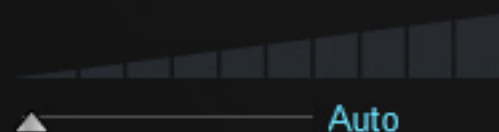
Fan

CPU fan 0585 rpm
 CPU_OPT 605 rpm
 COV Fan 0 rpm
 Chassis fan 1 783 rpm
 Chassis fan 2 605 rpm

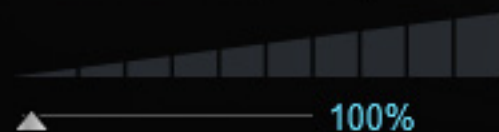
CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

CPU Load-Line Calibration

The voltage droop during CPU loading can be calibrated to improve overclocking stability.

☒ Power Saving

☐ Performance

* Do not remove the thermal module. The thermal conditions should be monitored.

* The actual performance boost may vary depending on your CPU specification.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (4.5 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 050.0 °C

MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0583 rpm

CPU_OPT 605 rpm
COV Fan 0 rpm
Chassis fan 1 782 rpm
Chassis fan 2 604 rpm



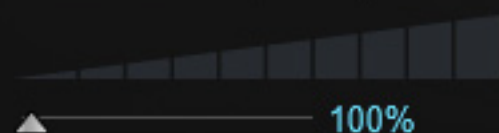
CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



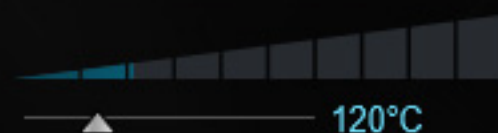
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

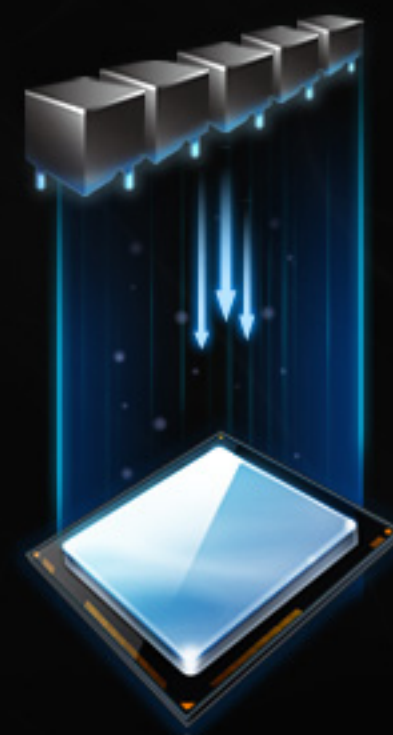
☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

CPU Current Capability

A higher value brings a wider total power range and extends the overclocking frequency range simultaneously.



Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 050.0 °C

MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0644 rpm

CPU_OPT 673 rpm
COV Fan 0 rpm
Chassis fan 1 811 rpm
Chassis fan 2 631 rpm



CPU

DRAM

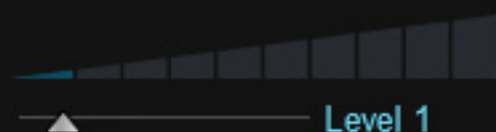
CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

VDDSOC Load-line Calibration

CPU/NB Load Line controls the behavior of the DRAM Controller. Adjust to a high value for better system performance or to a low value for a better thermal solution.

Power Saving

Performance

* Do not remove the thermal module. The thermal conditions should be monitored.

* The actual performance boost may vary depending on your CPU specification.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (1.1 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 050.0 °C

MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0604 rpm

CPU_OPT 624 rpm
COV Fan 0 rpm
Chassis fan 1 783 rpm
Chassis fan 2 620 rpm



CPU

DRAM

CPU Load-Line Calibration



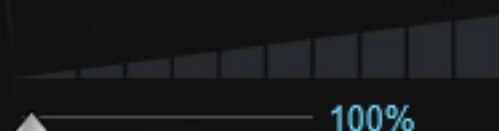
CPU Current Capability



VDDSOC Load-line Calibration



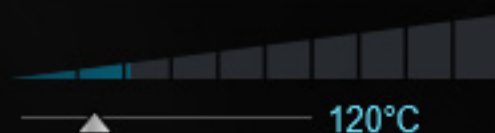
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

VDDSOC Current Capability

Adjusting to a high value brings a high DRAM Controller power range and extends the overclocking frequency range simultaneously.



Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C

MotherBoard 33.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0603 rpm

CPU_OPT 623 rpm
COV Fan 0 rpm
Chassis fan 1 782 rpm
Chassis fan 2 618 rpm



CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



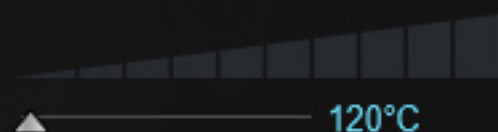
VDDSOC Load-line Calibration



VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

CPU Power Thermal Control

A higher temperature brings a wider CPU power thermal range and extends the overclocking tolerance to enlarge O.C. potential.



* Do not remove the thermal module. The thermal conditions should be monitored.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128 V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
MotherBoard 34.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0584 rpm
CPU_OPT 605 rpm
COV Fan 0 rpm
Chassis fan 1 769 rpm
Chassis fan 2 604 rpm



CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



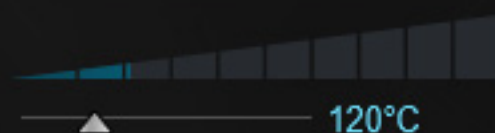
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



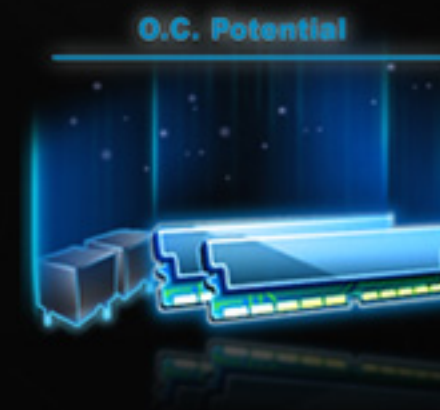
CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

VDDSOC Power Thermal Control

A higher temperature brings a wider DRAM power thermal range and extends the overclocking tolerance to enlarge O.C. potential.



* Do not remove the thermal module. The thermal conditions should be monitored.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128 V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
MotherBoard 34.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0585 rpm
CPU_OPT 602 rpm
COV Fan 0 rpm
Chassis fan 1 760 rpm
Chassis fan 2 604 rpm



CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



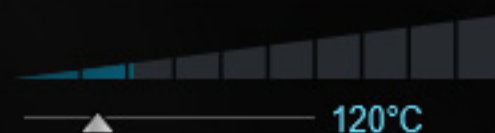
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

CPU Power Duty Control

(1) T.Probe: Thermal balance.

(2) Extreme: Current balance.

* Do not remove the thermal module. The thermal conditions should be monitored.

Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (2.3 watts)



Voltage

CPU Core Voltage 1.128V

VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C

MotherBoard 34.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0583 rpm

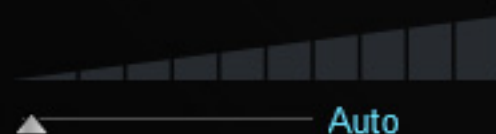
CPU_OPT 605 rpm
COV Fan 0 rpm
Chassis fan 1 760 rpm
Chassis fan 2 604 rpm



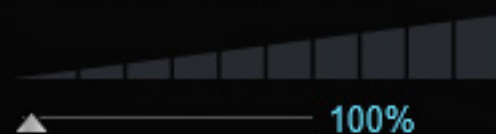
CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



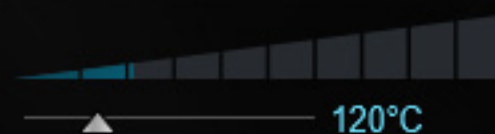
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

Active Frequency Mode

Enable Active Frequency Mode for enhanced power saving condition.

Power Saving



Undo

Apply



CPU Frequency

Core 0

3600.0 MHz
100.0 x 36 (0.8 watts)



Voltage

CPU Core Voltage 1.128 V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.220 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU 049.0 °C
MotherBoard 34.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

CPU fan 0597 rpm
CPU_OPT 604 rpm
COV Fan 0 rpm
Chassis fan 1 767 rpm
Chassis fan 2 607 rpm



CPU

DRAM

CPU Load-Line Calibration



CPU Current Capability



VDDSOC Load-line Calibration



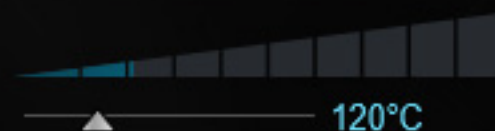
VDDSOC Current Capability



CPU Power Thermal Control



VDDSOC Power Thermal Control



CPU Power Duty Control

☒ T.Probe ☐ Extreme

Active Frequency Mode

ON OFF

Active Frequency Mode

Enable Active Frequency Mode for enhanced power saving condition.

Power Saving



Undo

Apply



CPU Frequency

◀ Core 0 ▶

3600.0 MHz
100.0 x 36 (7.9 watts)



Voltage

CPU Core Voltage **1.128** V
VDDSOC Voltage 1.090 V
DRAM Voltage AB 1.199 V
DRAM Voltage CD 1.220 V
1.8V PLL Voltage 1.809 V



Temperature

CPU **049.0** °C
MotherBoard 34.0 °C
PCH 54.0 °C
T_Sensor N/A
EXT_Sensor1 N/A



Fan

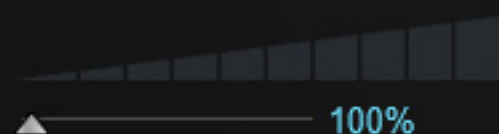
CPU fan **0589** rpm
CPU_OPT 619 rpm
COV Fan 0 rpm
Chassis fan 1 769 rpm
Chassis fan 2 613 rpm



CPU

DRAM

DRAM Current Capability(CHA,CHB)



DRAM Power Phase Control(CHA,CHB)

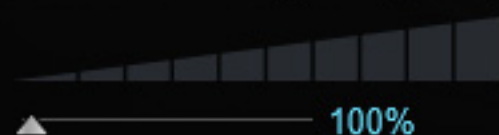
- ☐ Optimize
- ☒ Extreme

DRAM Current Capability(CHA,CHB)

A higher value brings a wider total power range and extends the overclocking frequency range simultaneously.



DRAM Current Capability(CHC,CHD)



DRAM Power Phase Control(CHC,CHD)

- ☐ Optimize
- ☒ Extreme

DRAM Switching Frequency(CHA,CHB)



DRAM Switching Frequency(CHC,CHD)



Undo

Apply



CPU Frequency

◀ Core 0 ▶

3600.0 MHz

100.0 x 36 (16.9 watts)



Voltage

CPU Core Voltage **1.128** V

VDDSOC Voltage	1.090 V
DRAM Voltage AB	1.199 V
DRAM Voltage CD	1.220 V
1.8V PLL Voltage	1.809 V



Temperature

CPU **049.0** °C

MotherBoard	34.0 °C
PCH	54.0 °C
T_Sensor	N/A
EXT_Sensor1	N/A



Fan

CPU fan **0583** rpm

CPU_OPT	618 rpm
COV Fan	0 rpm
Chassis fan 1	772 rpm
Chassis fan 2	611 rpm

