

MSI MPG B550 Gaming Plus



Artikel
Herstellernummer
EAN
MSI

216962
MPG B550 GAMING PLUS
0824142218600

GAME IN STYLE

The MPG series brings out the best in gamers by allowing full expression in color with advanced RGB lighting control and synchronization. Experiment on another level of personalization with a front LED strip that provides convenient in-game and real time notifications. With the MPG series, transform your equipment into the center of attention and top leaderboards in style.

PREMIUM HARDWARE DESIGN

With years of experience, MSI is no stranger to building high-performance motherboards. Our R&D and engineering teams have reviewed countless designs, evaluated a wide selection of high quality components, and developed products for reliability even under extreme conditions.

THERMAL SOLUTION FOR MORE CORES AND HIGHER PERFORMANCE

With more cores' processors, thermal and power design is more important to make sure the temperature keeps lower. MSI extended PWM heatsink and enhanced circuit design ensures even high-end CPU to run in full speed with MSI motherboards.

M.2 SHIELD FROZR

World's fastest SSDs can start to lower performance when getting hot. Part of the motherboards heatsink design, M.2 SHIELD FROZR is the next generation M.2 thermal solution to avoid this by offering the best thermal protection to make sure that SSD maintains maximum performance.

FULLY CONTROLLABLE IN BIOS AND SOFTWARE

MSI motherboards let you manage speeds and temperatures for all your system and CPU fans. Total Fan Control allows you check your primary system characteristics in a simplified graphical interface. You can also set up to 4 temperature targets for CPU and motherboard, which will adjust the fan speeds automatically.

OPTIMIZED FOR WATER COOLING

Designed to support the most popular All-In-One & customized water cooling solutions on the market. A dedicated water pump PIN header supports up to 3 amp, giving you full control of the water pump speed. A clearly marked 'keep-out-zone' allows for easy and safe installation and a perfect fit.

10 + 2 + 1 DIGITAL POWER WITH DOUBLER DESIGN

Unleash and sustain maximum performance with an aggressive VRM design built with a total of 10 phases Digital Power with Doubler Design. Combining exclusive Core Boost technology, MPG series motherboard is ready to sustain heavy daily work.

CORE BOOST

Core Boost technology combines MSI's premium layout and digital power design which allows for faster and undistorted current delivery to the CPU at pin-point precision. This creates the perfect conditions for multi-core CPU while high-loading operation.

1-SECOND OVERCLOCKING!

MSI Game Boost enables one-second overclocking, giving you the performance boost you need to get more FPS.

LOAD-LINE CALIBRATION

What you set, is what you get. LLC makes sure your CPU voltage remains 100% stable under any load. This greatly improves stability when demanding more CPU performance.

OVERVOLTAGE PROTECTION

Prevents potential short-circuit damage to the CPU and other critical components.

DIGITAL POWER DESIGN

A fully digital power design allows for faster and undistorted current delivery to the CPU at pin-point precision. Creating the perfect conditions for CPU overclocking.

PRE-INSTALLED IO SHIELDING

Featuring the pre-installed IO shielding, makes your installation process easier and safer. The patent-pending design protect your IO ports and also prevent electrostatic discharge damage, makes your motherboard a strong gaming foundation.

XL CLIP

The enlarged PCI-E clip helps you swap or remove your devices easier. Keep the PCI-E slot stronger and safer.

EZ DEBUG LED

Run into trouble? Onboard LEDs for key components will indicate the source of the problem so you know exactly where to look to get up and running again.

EZ LED CONTROL

A built-in LED button on the motherboard to control your light effect. Turn on/off your light in a second!

PCB WITH 2OZ THICKENED COPPER

An enhanced PCB design with 2oz thickened copper increases conductivity, improving heat dissipation and performance reliability especially during overclocking.

FORTIFY YOUR SYSTEM WITH PCI-E STEEL ARMOR

MSI PCI Express Steel Armor slots are secured to the motherboard with extra solder points and support the weight of heavy graphics cards. When every advantage in games counts, Steel Armor shields the point of contact from electromagnetic interference.

ULTIMATE MOTHERBOARD PROTECTION

Double ESD protection doubles up the grounding layer around the mounting holes, preventing static discharge surges from damaging the motherboard.

CERTIFIED FOR GAMING

MSI motherboards has been built and tweaked for hardcore gaming. Feedback from the world's best esports players and rigorous testing sessions with demanding PC games has resulted in a motherboard that's both powerful and reliable.

ENHANCED PERFORMANCE

High performance MSI motherboards are loaded with advanced features and the latest technology to overwhelm any challenge at hand no matter whether you're a gamer, prosumer, or PC enthusiast.

LIGHTNING GEN 4 M.2

Utilizing 3rd Gen Ryzen processors, MSI B550 motherboards feature latest Lightning Gen 4 M.2 which is the fastest onboard storage solution on the market with up to 64 Gb/s transfer speed.

FAST AND FUTURE-READY STORAGE

MSI B550 motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Higher efficiency makes your work easier.

EXTREME STABILITY & COMPATIBILITY TESTING

MSI conducts thorough memory testing with the most popular memory brands under extreme conditions to ensure your system runs stable no matter what. Our memory partners include brands like Corsair, Crucial, Kingston, G.Skill and many more to optimize memory modules, configurations and even improve overclocking.

A HUGE STEP OF DDR PERFORMANCE

MSI OC LAB does not merely work hard on extreme overclocking. Compared to B450 motherboard memory A-XMP profile, MSI does have great improvement on performance and efficiency for B550 motherboards. Easy to enable A-XMP profile with auto power settings to get the best memory speed and stability.

EASY OVERCLOCKING WITH A-XMP PROFILE

The A-XMP in MSI BIOS are tested and certified by MSI OC LAB. It is easy to enable with auto power settings to get the best

memory speed and stability.

DRAGON CENTER

MSI brand new Dragon Center unifies a suite of MSI software utilities into a single centralized application. Take control of advanced motherboards features and unleash endless possibilities.

CLICK BIOS 5

Get more from a loaded BIOS designed for ease of use. Fine-tune the motherboard for gaming performance, efficiency, or overclocking world records!

GAME BOOST

Quickly overclock your CPU with a single button for more performance.

A-XMP

Choose from a preset A-XMP profile and automatically overclock compatible DDR memory.

M-FLASH

Conveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.

HARDWARE MONITOR

Get immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.

MEMORY TRY IT

Get extreme speed out of your system memory and get more performance.

SEARCH & FAVORITES

A permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

MSI APP PLAYER

Developed under an exclusive partnership with BlueStacks, the MSI APP Player brings seamless gaming experience between mobile games and PC platform, and leverages customized features as specific keyboard lighting and better graphics with multi-task works.

CONNECTIVITY

MSI motherboards are built with a variety of connectors to satisfy gamers. Enhanced audio, advanced LAN networking capabilities, USB and Mystic Light turn any gaming experience into an immerse one.

DEDICATED HIGH DEFINITION AUDIO PROCESSOR

Make sure you enjoy the purest sound quality in both stereo and surround sound.

HIGH QUALITY AUDIO CAPACITORS

A high fidelity sound experience with exceptional acoustics and realism for studio level headphones is ensured.

HIGH QUALITY AUDIO JACKS WITH S/PDIF

Keep your sound perfect by transmit your audio with pure digital signal.

ISOLATED AUDIO DESIGN

Like a dedicated sound card, audio components and circuits have been laid on a reserved motherboard section and electrically isolated.

SEPARATED AUDIO LAYERS FOR CLEAN LEFT & RIGHT CHANNELS

Using separated layers in the PCB ensures equally pristine sound quality for both left and right audio channels.

Audio Boost protects your ears by eliminating those annoying loud popping sounds when you plug/unplug devices or turn your PC on/off.

BOOST YOUR GAME EXPERIENCE WITH USB 3.2 GEN 2

Read and write your files over USB faster than ever. MSI MPG series motherboards offer a wide variety of options to connect and boost your USB devices, delivering 10Gbps transferring speed by both USB 3.2 Gen 2 Type-A and Type-C.

USB FRONT TYPE-C

MSI gaming motherboards support USB Front Type-C that allows gamers to connect with the latest USB devices. Built up a system with MSI PC case to have the most convenient experience.

TRUE COLOR MYSTIC LIGHT ON MOTHERBOARD

Splash on some color and vibrant RGB lighting effects using MSI Mystic Light with 16.8 million colors and 29 LED effects.

Mystic Light Extension

Still not satisfied with the decoration on the ecosystem? The Mystic Light Extension will help you to have more attractive way to decorate your gaming rig by the LED Strips and still under controlled by the Mystic Light application.

Zusammenfassung

GAME IN STYLE

The MPG series brings out the best in gamers by allowing full expression in color with advanced RGB lighting control and synchronization. Experiment on another level of personalization with a front LED strip that provides convenient in-game and real time notifications. With the MPG series, transform your equipment into the center of attention and top leaderboards in style.

PREMIUM HARDWARE DESIGN

With years of experience, MSI is no stranger to building high-performance motherboards. Our R&D and engineering teams have reviewed countless designs, evaluated a wide selection of high quality components, and developed products for reliability even under extreme conditions.

THERMAL SOLUTION FOR MORE CORES AND HIGHER PERFORMANCE

With more cores' processors, thermal and power design is more important to make sure the temperature keeps lower. MSI extended PWM heatsink and enhanced circuit design ensures even high-end CPU to run in full speed with MSI motherboards.

M.2 SHIELD FROZR

World's fastest SSDs can start to lower performance when getting hot. Part of the motherboards heatsink design, M.2 SHIELD FROZR is the next generation M.2 thermal solution to avoid this by offering the best thermal protection to make sure that SSD maintains maximum performance.

FULLY CONTROLLABLE IN BIOS AND SOFTWARE

MSI motherboards let you manage speeds and temperatures for all your system and CPU fans. Total Fan Control allows you check your primary system characteristics in a simplified graphical interface. You can also set up to 4 temperature targets for CPU and motherboard, which will adjust the fan speeds automatically.

OPTIMIZED FOR WATER COOLING

Designed to support the most popular All-In-One & customized water cooling solutions on the market. A dedicated water pump PIN header supports up to 3 amp, giving you full control of the water pump speed. A clearly marked 'keep-out-zone' allows for easy and safe installation and a perfect fit.

10 + 2 + 1 DIGITAL POWER WITH DOUBLER DESIGN

Unleash and sustain maximum performance with an aggressive VRM design built with a total of 10 phases Digital Power with Doubler Design. Combining exclusive Core Boost technology, MPG series motherboard is ready to sustain heavy daily work.

CORE BOOST

Core Boost technology combines MSI's premium layout and digital power design which allows for faster and undistorted current delivery to the CPU at pin-point precision. This creates the perfect conditions for multi-core CPU while high-loading operation.

1-SECOND OVERCLOCKING!

MSI Game Boost enables one-second overclocking, giving you the performance boost you need to get more FPS.

LOAD-LINE CALIBRATION

What you set, is what you get. LLC makes sure your CPU voltage remains 100% stable under any load. This greatly improves stability when demanding more CPU performance.

OVERVOLTAGE PROTECTION

Prevents potential short-circuit damage to the CPU and other critical components.

DIGITAL POWER DESIGN

A fully digital power design allows for faster and undistorted current delivery to the CPU at pin-point precision. Creating the perfect conditions for CPU overclocking.

PRE-INSTALLED IO SHIELDING

Featuring the pre-installed IO shielding, makes your installation process easier and safer. The patent-pending design protect your IO ports and also prevent electrostatic discharge damage, makes your motherboard a strong gaming foundation.

XL CLIP

The enlarged PCI-E clip helps you swap or remove your devices easier. Keep the PCI-E slot stronger and safer.

EZ DEBUG LED

Run into trouble? Onboard LEDs for key components will indicate the source of the problem so you know exactly where to look to get up and running again.

EZ LED CONTROL

A built-in LED button on the motherboard to control your light effect. Turn on/off your light in a second!

PCB WITH 2OZ THICKENED COPPER

An enhanced PCB design with 2oz thickened copper increases conductivity, improving heat dissipation and performance reliability especially during overclocking.

FORTIFY YOUR SYSTEM WITH PCI-E STEEL ARMOR

MSI PCI Express Steel Armor slots are secured to the motherboard with extra solder points and support the weight of heavy graphics cards. When every advantage in games counts, Steel Armor shields the point of contact from electromagnetic interference.

ULTIMATE MOTHERBOARD PROTECTION

Double ESD protection doubles up the grounding layer around the mounting holes, preventing static discharge surges from damaging the motherboard.

CERTIFIED FOR GAMING

MSI motherboards has been built and tweaked for hardcore gaming. Feedback from the world's best esports players and rigorous testing sessions with demanding PC games has resulted in a motherboard that's both powerful and reliable.

ENHANCED PERFORMANCE

High performance MSI motherboards are loaded with advanced features and the latest technology to overwhelm any challenge at hand no matter whether you're a gamer, prosumer, or PC enthusiast.

LIGHTNING GEN 4 M.2

Utilizing 3rd Gen Ryzen processors, MSI B550 motherboards feature latest Lightning Gen 4 M.2 which is the fastest onboard storage solution on the market with up to 64 Gb/s transfer speed.

FAST AND FUTURE-READY STORAGE

MSI B550 motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Higher efficiency makes your work easier.

EXTREME STABILITY & COMPATIBILITY TESTING

MSI conducts thorough memory testing with the most popular memory brands under extreme conditions to ensure your system runs stable no matter what. Our memory partners include brands like Corsair, Crucial, Kingston, G.Skill and many more to optimize memory modules, configurations and even improve overclocking.

A HUGE STEP OF DDR PERFORMANCE

MSI OC LAB does not merely work hard on extreme overclocking. Compared to B450 motherboard memory A-XMP profile, MSI does have great improvement on performance and efficiency for B550 motherboards. Easy to enable A-XMP profile with auto power settings to get the best memory speed and stability.

EASY OVERCLOCKING WITH A-XMP PROFILE

The A-XMP in MSI BIOS are tested and certified by MSI OC LAB. It is easy to enable with auto power settings to get the best memory speed and stability.

DRAGON CENTER

MSI brand new Dragon Center unifies a suite of MSI software utilities into a single centralized application. Take control of advanced motherboards features and unleash endless possibilities.

CLICK BIOS 5

Get more from a loaded BIOS designed for ease of use. Fine-tune the motherboard for gaming performance, efficiency, or overclocking world records!

GAME BOOST

Quickly overclock your CPU with a single button for more performance.

A-XMP

Choose from a preset A-XMP profile and automatically overclock compatible DDR memory.

M-FLASH

Conveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.

HARDWARE MONITOR

Get immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.

MEMORY TRY IT

Get extreme speed out of your system memory and get more performance.

SEARCH & FAVORITES

A permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

MSI APP PLAYER

Developed under an exclusive partnership with BlueStacks, the MSI APP Player brings seamless gaming experience between mobile games and PC platform, and leverages customized features as specific keyboard lighting and better graphics with multi-task works.

CONNECTIVITY

MSI motherboards are built with a variety of connectors to satisfy gamers. Enhanced audio, advanced LAN networking capabilities, USB and Mystic Light turn any gaming experience into an immerse one.

DEDICATED HIGH DEFINITION AUDIO PROCESSOR

Make sure you enjoy the purest sound quality in both stereo and surround sound.

HIGH QUALITY AUDIO CAPACITORS

A high fidelity sound experience with exceptional acoustics and realism for studio level headphones is ensured.

HIGH QUALITY AUDIO JACKS WITH S/PDIF

Keep your sound perfect by transmit your audio with pure digital signal.

ISOLATED AUDIO DESIGN

Like a dedicated sound card, audio components and circuits have been laid on a reserved motherboard section and electrically isolated.

SEPARATED AUDIO LAYERS FOR CLEAN LEFT & RIGHT CHANNELS

Using separated layers in the PCB ensures equally pristine sound quality for both left and right audio channels.

Audio Boost protects your ears by eliminating those annoying loud popping sounds when you plug/unplug devices or turn your PC on/off.

BOOST YOUR GAME EXPERIENCE WITH USB 3.2 GEN 2

Read and write your files over USB faster than ever. MSI MPG series motherboards offer a wide variety of options to connect and boost your USB devices, delivering 10Gbps transferring speed by both USB 3.2 Gen 2 Type-A and Type-C.

USB FRONT TYPE-C

MSI gaming motherboards support USB Front Type-C that allows gamers to connect with the latest USB devices. Built up a system with MSI PC case to have the most convenient experience.

TRUE COLOR MYSTIC LIGHT ON MOTHERBOARD

Splash on some color and vibrant RGB lighting effects using MSI Mystic Light with 16.8 million colors and 29 LED effects.

Mystic Light Extension

Still not satisfied with the decoration on the ecosystem? The Mystic Light Extension will help you to have more attractive way to decorate you gaming rig by the LED Strips and still under controlled by the Mystic Light application.

MSI MPG B550 Gaming Plus, AMD, Socket AM4, AMD Ryzen 3000 Series, DDR4-SDRAM, 128 GB, DIMM

MSI MPG B550 Gaming Plus. Processor manufacturer: AMD, Processor socket: Socket AM4, Compatible processor series: AMD Ryzen 3000 Series. Supported memory types: DDR4-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Parallel processing technology support: 2-Way CrossFireX, Maximum graphics card memory: 16000 MB, Maximum resolution: 4096 x 2160 pixels. Ethernet interface type: Gigabit Ethernet, LAN controller: Realtek 8111H

Merkmale

Logistics data

Harmonized System (HS) code	84733020
-----------------------------	----------

Other features

Weight	1 kg
--------	------

BIOS

BIOS type	UEFI AMI
Clear CMOS jumper	Yes

Packaging content

Cables included	SATA
Drivers included	Yes

Weight & dimensions

Width	305 mm
Depth	244 mm
Height	65 mm

Expansion slots

PCI Express x1 (Gen 3.x) slots	2
PCI Express x16 (Gen 3.x) slots	1
PCI Express x16 (Gen 4.x) slots	1
Number of M.2 (M) slots	2

Graphics

Maximum graphics card memory	16000 MB
Parallel processing technology support	2-Way CrossFireX
On-board graphics card	No
Maximum resolution	4096 x 2160 pixels

Processor

Processor manufacturer	AMD
Processor socket	Socket AM4
Compatible processor series	AMD Ryzen 3000 Series
Maximum number of SMP processors	1

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	SATA III
RAID support	Yes
RAID levels	0, 1, 10

Network

Ethernet LAN	Yes
Ethernet interface type	Gigabit Ethernet
LAN controller	Realtek 8111H
Wi-Fi	No
Top Wi-Fi standard	Not available

Memory

Supported memory types	DDR4-SDRAM
Number of memory slots	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC ?ompatibility	ECC & Non-ECC
Supported memory clock speeds	1866,2133,2400,2667,2800,2933,3000,3066,3200,3466,3600,3733,3866,4000,4133,4266,4400 MHz
Maximum internal memory	128 GB
Unbuffered memory	Yes

Features

Motherboard chipset	AMD B550
Audio chip	Realtek ALC892
Audio output channels	7.1 channels
Product colour	Black
PC health monitoring	CPU, Fan, Temperature
Component for	PC
Motherboard form factor	ATX
Motherboard chipset family	AMD
Number of mounting holes	9

Rear panel I/O ports

USB 2.0 ports quantity	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-2 A ports quantity	
USB 3.2 Gen 2 (3.1 Gen 2) Type-1 A ports quantity	
USB 3.2 Gen 2 (3.1 Gen 2) Type-1 C ports quantity	

Ethernet LAN (RJ-45) ports	1
PS/2 ports quantity	1
HDMI ports quantity	1
DisplayPorts quantity	1
S/PDIF out port	Yes
Digital audio optical out	1

Internal I/O

USB 2.0 connectors	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors	1
Number of SATA III connectors	6
Front panel audio connector	Yes
ATX Power connector (24-pin)	Yes
CPU fan connector	Yes
Number of chassis fan connectors	6
Chassis intrusion connector	Yes
TPM connector	Yes
12V power connector	Yes
RGB LED pin header	Yes

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.