



msi[®]



GP63 Leopard
GAMING PERFORMANCE

GP63 LEOPARD 8RE / GP63 LEOPARD 8RD
Datasheet



GP63 Leopard

- Features -

|| Performance

HEXA-ORDINARY PERFORMANCE 8TH GEN INTEL® CORE™ i7 PROCESSORS

Take a huge leap in performance with the 1st-ever Hexa Core notebook processors! Experience boosted gameplay and faster rendering by up to 40% with the extra cores. The more the merrier!*



DYNAMIC TEMPERATURE / PERFORMANCE BALANCING

The exclusive MSI "SHIFT" technology pushes system to the extreme while minimizing noise and temperature. Default setting is at Sport mode. Switch between five profiles "Turbo", "Sport", "Comfort", "ECO/Green", and "User" modes to either push your system to the extreme or in the pursuit of longer battery life.



What gamers would love most about this feature is probably the Sport and the Turbo modes.

Sport mode ensures that MSI gaming notebook runs faster than the rest whereas Turbo mode permits pro-gamers to manually adjust the CPU and GPU clock to overclock the system of K series CPU but still keeps down the system temperature and noise level.

* SHIFT can be activated by pressing the FN + F7 hotkey combo, or via the Dragon Gaming Center.

LATEST ARCHITECTURE DDR4-2400 MEMORY SUPPORT

Get the best possible performance out of your notebook with support of the advanced DDR4-2400 memory, achieving over 32GB/s in reading speed and 36GB/s in writing. With over 40% faster performance than previous generations DDR3-1600, DDR4-2400 is the new laptop standard to take your extreme gaming experience to the next level.





GP63 Leopard

- Features -

|| Performance

COOLER BOOST 5 - REVOLUTIONARY COOLING MODULE FOR ENTHUSIASTIC GAMING

The latest MSI Cooler Boost 5 excels as a dual thermal modules, adopting dual Whirlwind Blade fans with 7 heat pipes and well-endowed 4 airflows in the revolutionary cooling module. It ends up intensively and efficiently driving exhaust heat out of the system, raising the cooling technology to the highest level of its kind. Especially design for GTX 1070 level graphics with greater performance and lower temperature.

Cooler Boost 5

FASTER, SMALLER AND MORE CONVENIENT USB TYPE-C INTERFACE (8RE)

The new SuperSpeed+ transfer mode supports transferring data up to 10Gbps, around 20X faster than the previous USB 2.0 standard. The USB Type -C port is smaller than the old Type-A port and reversible design makes it more convenient than before. The USB3.1 is backwards compatible with USB3.0 and USB 2.0.

* This feature only for GP63 Leopard 8RE.

USB3.1
TYPE-C

(optional)

FASTER, SMALLER AND MORE CONVENIENT USB TYPE-C INTERFACE (8RD)

The SuperSpeed transfer mode supports transferring data up to 5Gbps, around 10X faster than the previous USB 2.0 standard. The USB Type-C port is smaller than the old Type-A port and reversible design makes it more convenient than before. The USB3.0 is backwards compatible with USB 2.0.

* This feature only for GP63 Leopard 8RD.

USB3.0
TYPE-C

(optional)



GP63 Leopard

- Features -

Visuals

EMBRACE THE ENTHUSIAST LEVEL VIRTUAL REALITY EXPERIENCE (7RFX)

The perfect combination of MSI gaming laptops and Nvidia next gen. GeForce® GTX 1060 graphics cards shall bring you the enthusiast level of VR experience.

As the only brand certified by NVIDIA, Intel and VIVE, MSI is the 1st VR ready gaming laptop brand and provides an exceptionally smooth and powerful mobile platform for the ultimate immersive virtual reality experience.

It is highly recommended to enjoy this latest technology and explore the amazing artificial world with MSI extreme gaming notebooks. Get ready before everyone else with World's best VR ready gaming notebooks and to be amazed by the excitement experience from the simulated reality.

* This feature only for GP63 Leopard 8RE.



(optional)

NVIDIA'S LATEST GEFORCE® GTX 1060 (8RE) / GTX 1050 Ti (8RD) GPU IS READY TO AMAZE YOU ON MSI GAMING NOTEBOOKS

With the innovative Cooler Boost 5 cooling solution and MSI's exclusive gaming features catered for gamers, the NVIDIA's latest GeForce® GTX 1060 and GTX 1050 Ti GPU releases its full performance completely on MSI gaming laptops.





Visuals

WIN BY A MILLISECOND FASTER – WORLD'S FIRST 120HZ 3MS GAMING DISPLAY

As the only gaming laptop with 120Hz refresh rate and 3ms response time panel, this is the go-to companion you can count on to never lose a detail during chaotic gameplays. The level of realism is drawn from the panel's ability to produce up to 120 picture frames per second, topped with 94% NTSC Color Gamut calibration to bring you the most vibrant visuals for your ultimate entertainment pleasures.

* This feature may vary by SKU and country.



(optional)

MULTI-TASK WITH UP TO 3 MONITORS

Expand the vision for extreme gaming experience. MSI innovative Matrix Display supports up to 2 external displays simultaneously through 1x HDMI port* and 1x Mini DisplayPort 1.2. Multi-task is made possible even during competitive gameplays. Connect the laptop to HDTV display, Matrix Display supports 4K output with a resolution up to 3840 x 2160. MSI Matrix Display technology creates an ideal environment for extreme gaming experience and pleasant multimedia entertainment.

*GT / GE / GP / GL / GF / GV series (with GTX 1060 or above): HDMI 4K@60Hz

*GP / GL / GF / GV Series (with GTX 1050 Ti or below): HDMI 4K@30Hz



Matrix Display

METALLIC CHASSIS WITH BRUSHED METAL DESIGN

Elegant brushed aluminum chassis, creating an ideal fusion of aesthetics and performance.



AI Alloy Chassis



GP63 Leopard

- Features -

Visuals

TRIDEF VR - ONLY EVERYTHING IN 3D! (8RE)

TriDef VR enables gamer to play their favorite games in 3D on your HMD(head mounted display). DirectX 9,10 and 11 games have been pre-configured to generate an optimal 3D experience using GenMe's industry leading 2D-to-3D conversion technology. TriDef VR allows users to tweak their HMD to provide optimal user experience. It is compatible with both Oculus Rift and HTC Vive. It also offers an unique head tracked, in-game control user interface to allow users to launch games at will while wearing HMD.

Most importantly, MSI offers a 3-month free license to let gamers to fully benefit from the TriDef and get more from their VR.

* This feature only for GP63 Leopard 8RE.





GP63 Leopard

- Features -

🎵 Audio

5 TIMES BIGGER THAN OTHERS LOUDER SOUND, MORE RESONANCE, AND HIGHER QUALITY

End-users can feel every engine sound waves roaring past with upgraded giant speakers and world-class Dynaudio sound system. Exclusive audio module design and independent resonance space for top-notch auditory sensation. Oversize 2 speakers + 2 woofers creating a realistic, fulfilling sound and immersive effects. It allows gamers to step into an incredible sound feast with highest satisfaction!



OUTSTANDING HEADPHONE AUDIO WITH GOLDEN FLASH JACK

The MSI Audio Boost design enhances the output sound detail and sound stage by 30% more. The golden flash audio jack provides stable sound transmission (reduced obstruction) and works in conjunction with the optimized headsets AMP (Audio Power Amplifier) design, with low noise and low distortion characteristics, to greatly enhance headphone performance and faithfully reproduce each acoustic detail.



ALL NEW NAHIMIC 3 - FOR NEXT LEVEL AUDIO IMMERSION

Get ready to be amazed by the all new Nahimic 3 and live the gaming immersion like never before! With simple and intuitive new UI, the Nahimic 3 not only further enhances in game 3D surround sound, but also offers even more finite control over your music, movies, and conference calls.





GP63 Leopard

- Features -

Audio

LIVE THE COMPLETE AND IMMERSIVE VR EXPERIENCE (8RE)

Unchain the multichannel audio engine of your VR video game with Nahimic VR. More and more VR video games will be supporting the 7.1 audio surround but unfortunately, they are locked in stereo. Nahimic VR is the world first audio solution to bring the 7.1 sound into a regular stereo headset. We provide specific audio algorithms that are capable to improve drastically the 3D sound field over HDMI and USB output. The result is a combined VR video and 3D audio for a full and breathtaking VR experience for the gamers. Just turn-on the Nahimic VR button on the Dragon Center audio solution, and prepare to be stunned!

* This feature only for GP63 Leopard 8RE.

 **Nahimic VR**



GP63 Leopard

- Features -

Control

RGB GAMING KEYBOARD BY STEELSERIES

Every detail is especially calculated and designed for professional gamers, and now it's yours. This keyboard is with RGB backlighting, ergonomically designed with 1.9mm key travel for better responsive and tactile feedback, optimum WASD zone and support of anti-ghosting for up to 45 keys. Mechanical-level Shielding solution makes the gaming notebook keyboard the most solid ever



DRAGON CENTER 2.0 – FREE BUFF FOR YOUR RIG

The redesigned Dragon Center 2.0 takes optimization to a whole new level. Now it not only monitors but also optimizes system performance through various customizable profiles, and freeing up system memories to prioritize in-game performance.



SILVER LINING PRINT

See more and do more in the night with high-grade silver lining printed keys. See the full color spectrum on the SteelSeries multicolor keyboard and enjoy longer lasting keys worry free of long-term wear and tear.





GP63 Leopard

- Features -

↔ Streaming

KILLER GAMING LAN – PROTECTING YOUR PING

In the gaming battlefield, speed defines the winner. Stop losing games to lag with Killer Gaming Lan. The advanced stream detect 2.0 of the Killer Killer Gigabit Ethernet chipset protects networking traffic and prevents lag spikes through controlling and managing up to 6 priority levels. You can game without fear and play at your best while tracking your speeds with the easy-to-use Killer Networking Manager.



KILLER SHIELD – SMOOTHER GAMEPLAY

Killer Shield ensures smoother uploads and download processes. Lower latency and less Jitter optimize gameplay experience. Less pin rate floating reassures more fluent gameplays.



WTFast – JUST FASTER THAN THE REST

WTFast is the Gamers Private Network. It is like a global automated army of IT specialists all working together to optimize your game connection from end to end. WTFast reports rich connection stats for your online game, so you can see exactly what is happening with your game connection.

- Built just for MMO gamers
- Reduce average ping
- Greatly reduce connection flux, spikes and packet loss
- MSI Exclusive 2-month premium license

*Please register in below website and download the WTFast software, thank you!

<https://gaming.msi.com/promotion/wtfast>





msi®

GP63 Leopard

- Dimension & I/O -



383 mm

260 mm

15.6"

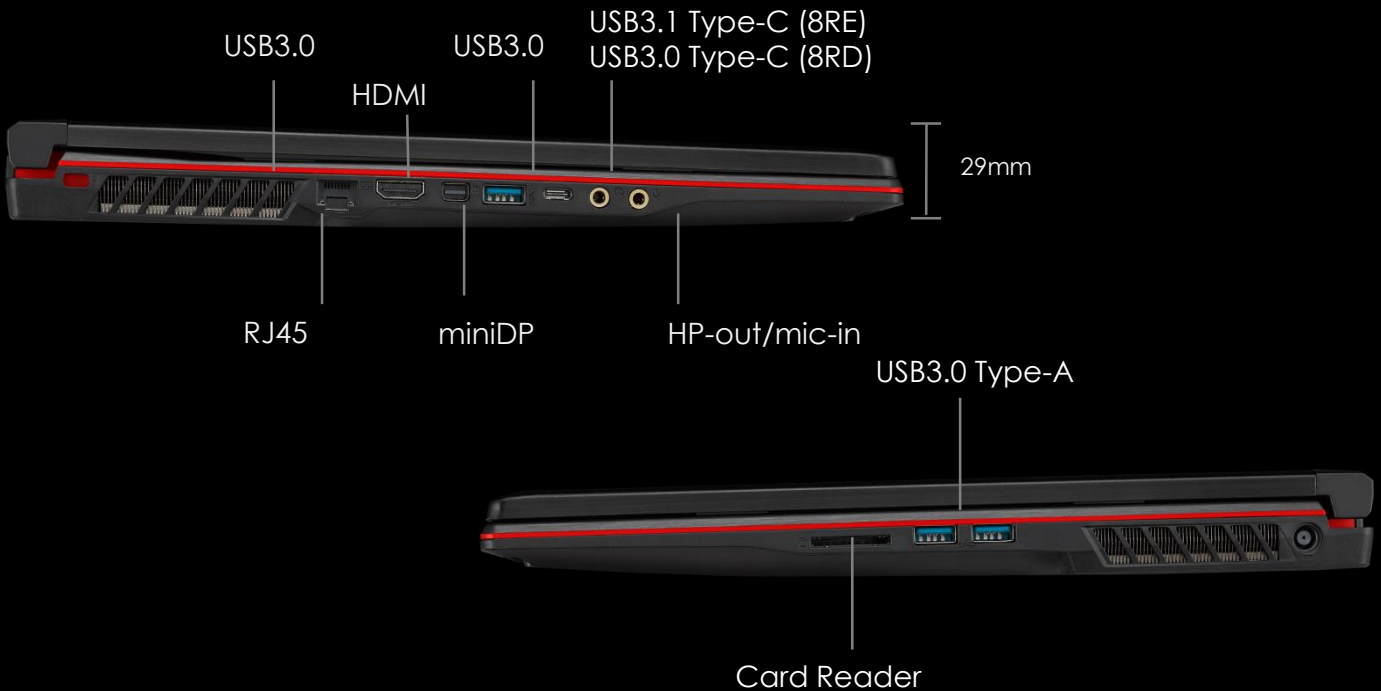
2.2kg 

RGB Gaming Keyboard by Steelseries with full color backlighting

Back-light Dragon Shield Logo

Metal Hair line finishing

Aluminum Alloy Design



USB3.0

HDMI

USB3.0

USB3.1 Type-C (8RE)
USB3.0 Type-C (8RD)

29mm

RJ45

miniDP

HP-out/mic-in

USB3.0 Type-A

Card Reader

TRUE GAMING



GP63 Leopard

- Specification -

Model Name	GP63 Leopard 8RE / GP63 Leopard 8RD
Processor	Latest 8 th Gen. Intel® Core™ i7 processor
Operating System	Windows 10 Home Windows 10 Pro
Chipset	Intel® HM370
Memory	DDR4-2400, 2 slots, up to 32GB
Display	15.6" Full HD (1920x1080), 120 Hz Refresh Rate and 3ms response time panel (Optional) 15.6" Full HD (1920x1080), IPS level panel (Optional) 15.6" Full HD (1920x1080), 94%NTSC wide-view panel (Optional)
Graphics	Latest GeForce® GTX 1060 6 GB GDDR5 (8RE) Latest GeForce® GTX 1050 Ti 4 GB GDDR5 (8RD)
Storage	1 x 2.5" HDD + 1 x NVMe M.2 SSD by PCIe Gen3 / SATA-SSD Combo
Optical Drive	-
Keyboard	RGB Gaming Keyboard by Steelseries / Silver Lining Print
Audio	Giant Speakers / Exclusive Audio Boost Technology / Nahimic 3Audio Enhance
USB 3.1 Gen2 / USB 3.1 Gen1 / USB 2.0	1x USB 3.1 Type-C / 1x USB3.1 Gen2 Type-A / 2x USB3.1 Gen1 Type-A / 0 (8RE) 1x USB 3.0 Type-C / 3x USB3.1 Gen1 Type-A / 0 (8RD)
Card Reader	SD(XC/HC)
Video Output	1x Mini DisplayPort 1.2 / 1x HDMI (4K@60Hz(8RE) / 4K@ 30Hz(8RD))
Mic-in/Headphone out	1/1
LAN/WiFi	Killer Gigabit Ethernet with Killer Shield / Intel Wireless-AC 9560
Bluetooth	Bluetooth v5
Webcam	HD type (30fps@720p)
Battery	6-Cell
Power Adapter	180W (8RE) / 150W (8RD)
Dimension	383 (W) x 260 (D) x 29 (H) mm
Weight	2.7Kg