



**msi**<sup>®</sup>



# BEST MEETS BEST REACH NEW HEIGHTS

**GP62MVR Leopard Pro**

**GP62M Leopard Pro**

**GP62M Leopard**

**GP62MVR 7RFX LEOPARD PRO / GP62M 7REX LEOPARD PRO  
GP62M 7RDX LEOPARD Datasheet**

**GEARED WITH LATEST  
7<sup>th</sup> GEN. INTEL<sup>®</sup> CORE<sup>™</sup> i7 PROCESSOR &  
GEFORCE<sup>®</sup> GTX 10 SERIES GRAPHICS**



## Performance

### 7th GENERATION INTEL® CORE™ i7 PROCESSORS

The perfect combination of MSI gaming laptops and 7th Generation Intel® Core™ i7 Processors shall bring you up to 10% performance enhancement of smoother VR experience.

The 7th generation Intel Core H series processor utilizes a power-efficient microarchitecture, advanced process technology and silicon optimizations to deliver faster performance than processors of the previous generation. CPU core performance of Core i7-7700HQ is 8% faster than i7-6700HQ under average usage. CPU multimedia performance is enhanced, making it 10% faster than i7-6700HQ. 4K video decoding/transcoding is also improved 15%.

The new media engine of the 7th generation Intel Core H series processor also delivers power-efficient VP9 and HEVC 10-bit hardware acceleration. 4K video playback with HDR visual quality is therefore significantly improved versus previous generation processors.

\* This feature may vary by SKU and country.



### PCI-E GEN3 X4 SSD – ULTRA SPEED STORAGE

Get in the game before everyone else with the latest PCI-E Gen 3.0 x4 bandwidth utilizing NVMe technology on single M.2 SSD. Harness the full performance potential of the Gen 3.0 SSD through the optimization of the hardware and software outputting extreme read speeds up to 2200MB/s, 5x faster than SATA3 SSD's.

\* This specification may vary by model.





GP62MVR *Leopard Pro*  
GP62M *Leopard Pro*  
GP62M *Leopard*  
- Features -

## Performance

### 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.



### ULTRA-FAST, SMALLER AND MORE CONVENIENT USB TYPE-C INTERFACE (7RFX)

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.





**62MVR Leopard Pro**  
**62M Leopard Pro**  
**62M Leopard**  
**- Features -**

## **||| Performance**

### **FASTER, SMALLER AND MORE CONVENIENT USB TYPE-C INTERFACE (7REX / 7RDX)**

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.

**USB3.0**  
TYPE-C

### **COOLER BOOST 4 ENHANCED COOLING DESIGN FOR HIGHER POWER GAMING**

Heat is the most original element on earth. It's pure physics that more energy will generate more heat. Cooling is therefore a knotty task to tackle with. MSI exclusive Cooler Boost 4 technology creates dual thermal modules internally by allocating dedicated heat pipes for GPU and CPU. One click on the fan boost button, a total of 6 heat pipes and dual fans actively and effectively push heat out of the system, making the cooling design the highest level of its kind.

**Cooler  
Boost 4**

\* The fan boost button is available only on certain models.



MSI VR Leopard Pro  
MSI Leopard Pro  
MSI 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 (7RFX) 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.



### NVIDIA'S LATEST GEFORCE® GTX 1060 (7RFX) / GTX 1050 Ti (7REX) / GTX 1050 (7RDX) GPU IS READY TO AMAZE YOU ON MSI GAMING NOTEBOOKS

MSI is the world's 1st gaming notebook to have this latest NVIDIA next gen. GPU solution onboard. Performance of NVIDIA's next generation GeForce® GTX 1060 (7RFX) GPU is improved more than 40% than GeForce® GTX 900M Series. For GeForce® GTX 1050 Ti (7REX) , It's improved more than 15% than GTX 965M graphics. And GeForce® GTX 1050 (7RDX) improved more than 30% than GTX 960M.



With the innovative Cooler Boost cooling solution and MSI's special gaming features catered for gamers, the NVIDIA's latest GeForce® GTX Graphics shall be able to release its full performance completely on MSI gaming laptops. By offering "one click to VR" solution and a totally immersive and smooth gaming experiences, the new MSI gaming laptops is going to shatter desktop performance cliché and amaze gamers with refreshing point of views on MSI gaming laptops.



MSI VR Leopard Pro  
MSI Leopard Pro  
MSI Leopard  
- Features -

## Visuals

### 94% NTSC WIDE-VIEW PANEL

The 94% NTSC panel delivers higher color range, presenting smoother color stage image output. Moreover, the wide-view characteristic of this panel allows clear view even from left and right side of the viewing angle.

\* This feature may vary by SKU and country.



### 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.

\* HDMI 4K@30Hz



### METALLIC CHASSIS WITH BRUSHED METAL DESIGN

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



### TRIDEF VR - ONLY EVERYTHING IN 3D! (7RFX)

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.





## 🎵 Audio

### 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.



### NAHIMIC 2+ THE 3D SOUND EXPERT IN GAMING

Live the most incredible and immersive 3D sound experience with Nahimic, highly acclaimed by gaming communities across the world. It offers high definition sound technology that boosts the audio and voice performance of your gaming computer. Get lost in the immersive 7.1 virtual surround sound over your standard audio equipment! Nahimic recreates all of the depth and spatiality of sound on a classic stereo system like your headsets or your external/internal PC speakers. With 2017 Nahimic 2+ release brings even more customizations like the audio profile creation or more fine tuning options for the Sound Tracker, and that for only one goal: being the ultimate weapon for the gamers.



### LIVE THE COMPLETE AND IMMERSIVE VR EXPERIENCE (7RFX)

Unchain the multichannel audio engine of your VR video game with Nahimic VR More and more VR video game 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!







62MUR Leopard Pro  
62M Leopard Pro  
62M Leopard  
- Features -

## Control

### STEELSERIES ENGINE 3 (SSE3) – TARGET, POSITION, AIM AND FIRE

During gameplay, SteelSeries Engines 3 serves as your firearm. With SSE3, you get to suit up your weapon with cool look by lightening it up with multiple backlit colors, transform your keyboard into a high technology firearm by setting up several keys into one key command and cloud syncing all SteelSeries gears together.

steelseries  
**ENGINE3**

### SENSE GAME STATS DIRECTLY THROUGH KEYBOARD

SteelSeries GameSense talks directly to your game and shall grant you the capability in playing games more intuitively. Through backlit colors and LED brightness of the keyboard, users may receive real time game stats like ammo levels, health levels, tool durability, and take immediate actions to respond to these changes, gaining full control during gameplays.

\* Please kindly upgrade your SteelSeries Engine 3 software to version 3.4.0 or later and download the Technic Launcher .

\* SteelSeries GameSense is only available on multi-color backlighting keyboard.

### 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

Gaming Keyboard by  
steelseries  
**RGB**

### 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.







*MSI VR Leopard Pro*  
*MSI Leopard Pro*  
*MSI Leopard*  
- Features -

## Control

### ONE APP, TOTAL CONTROL OF YOUR GAMING SYSTEM

Dragon Center provides six functions to get a total control of your personal computer : easy access to all apps at once (App Portal), real-time system performance monitor (System Monitor) and LED effect control (LED Wizard). Moreover, under System Tuner tab, users may adjust parameters through MSI VR Ready / X Boost / True Color technologies, modify Fans Speed and activate the SHIFT technology to achieve Dynamic Temperature / Performance Balancing or to overclock the system GPU. All of these functions can be done in just one click.

Mobile monitor and adjust your system profile and LED settings are also made possible (Mobile Center). When in need of solving a problem, click on the Tool & Help tab to get consult immediately. Dragon Center empowers users to facilitate tweaking process without occupying system resources.



**DRAGON CENTER**



62MUR Leopard Pro  
62M Leopard Pro  
62M 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®

62MUR Leopard Pro

62M Leopard Pro

62M Leopard

- Dimension & I/O -

383mm

260mm



15.6"

2.2kg

Keyboard by Steelseries with full color backlighting

Aluminum Alloy Design

Back-light Dragon Shield Logo

Without optical drive increased agility



USB3.0

USB3.0

USB3.1 Type-C (7RFX)

USB3.0 Type-C (7RDX/7REX)



22~29 mm

RJ45

HDMI

miniDP

HP-out/mic-in

USB2.0



Card Reader

DC in



**GP62MVR Leopard Pro**  
**GP62M Leopard Pro**  
**GP62M Leopard**  
**- Specification -**

<b>Model Name</b>	<b>GP62MVR 7RFX Leopard Pro /</b> <b>GP62M 7REX Leopard Pro / GP62M 7RDX Leopard</b>
<b>Processor</b>	Latest 7 <sup>th</sup> Gen. Intel® Core™ i7 processor
<b>Operating System</b>	Windows 10 Home Windows 10 Pro
<b>Chipset</b>	Intel® HM175
<b>Memory</b>	DDR4-2400, 2 slots, up to 32GB
<b>Display</b>	15.6" Full HD (1920x1080), IPS level panel (Optional) 15.6" Full HD (1920x1080), 94%NTSC wide-view panel(Optional)
<b>Graphics</b>	Latest GeForce® GTX 1060 + 3 GB GDDR5 ( <b>7RFX</b> ) Latest GeForce® GTX 1050 Ti + 4 GB GDDR5 ( <b>7REX</b> ) Latest GeForce® GTX 1050 + 4 / 2 GB GDDR5 ( <b>7RDX</b> )
<b>Storage</b>	1 x 2.5" HDD + 1 x NVMe M.2 SSD by PCIe Gen3 X4 / SATA-SSD Combo
<b>Keyboard</b>	RGB Gaming Keyboard by Steelseries / Silver Lining Print
<b>Audio</b>	4 Speakers / Exclusive Audio Boost Technology / Nahimic 2+ Audio Enhance
<b>USB 3.1/3.0/2.0</b>	1x USB 3.1 Type-C / 2 / 1 ( <b>GP62MVR 7RFX</b> ) 1x USB 3.0 Type-C / 2 / 1 ( <b>GP62M 7RDX/7REX</b> )
<b>Card Reader</b>	SD(XC/HC)
<b>Video Output</b>	HDMI (4K@ 30Hz)
<b>Mic-in/Headphone out</b>	1/1
<b>LAN/WiFi</b>	Killer Gigabit Ethernet with Killer Shield / 802.11ac
<b>Bluetooth</b>	Bluetooth v4.2
<b>Webcam</b>	HD type (30fps@720p)
<b>Battery</b>	6-Cell
<b>Power Adapter</b>	180W ( <b>GP62MVR 7RFX</b> ) 150W ( <b>GP62M 7REX</b> ) 135W ( <b>GP62M 7RDX</b> )
<b>Dimension</b>	383(W) x 260(D) x 22~29 (H) mm
<b>Weight</b>	2.2Kg