

Reveal The True Power of 10th Gen Processors

SHARPER IN CORE BLACK

4566 Stealth

### **ABOUT MSI**

MSI is a world leader in gaming, content creation and AloT solutions. Bolstered by its cutting-edge R&D capabilities and customer-driven innovation, MSI has a wide-ranging global presence spanning over 120 countries. Its comprehensive lineup of laptops, graphics cards, monitors, motherboards, desktops, peripherals, servers, IPCs, robotic appliances, and vehicle infotainment and telematics systems are globally acclaimed. Committed to advancing user experiences through the finest product quality, intuitive user interface and design aesthetics, MSI is a leading brand that shapes the future of technology.

STEEL BALL TEST

### MASTERPIECE IN PROCESS

MSI has devoted countless resources into research and development not only to pursue innovative features, but also to ensure ultimate stability. Over 1900 strict tests are run throughout the production process as a way to provide gamers the best gaming experience.







### **BEST-SELLING GAMING LAPTOP BRAND**

MSI gaming laptops are built with state-of-the-art gaming technology that promises guality and performance that has been continuously well-recognized by media and gamers around the world. With a full range of selection, from portable powerhouses to high-end desktop replacements, any gaming enthusiast can expect to have their needs met.







**BEST CHOICE AWARD** Golden



**BEST CHOICE AWARD** Category



**BEST CHOICE** 





OMPUTEX

d&i awards 2019



tech

radar

EDITOR'S CHOICE



CHOICE











HARDWARE





In Gaming Laptop Market by Digitimes

"Micro-Star International (MSI) shipped a total of 1.2 million gaming notebooks in 2018, fending off the competitions from Asustek Computer with devices from its gaming sub-brands to become the largest supplier in the gaming notebook market in terms of shipments and profitability." - DIGITIMES



Most Reliable

Laptop Brand by UFC-Que Choisir Survey by UFC-Que Choisir across 43,000 people in Europe reveals MSI as the most reliable PC brand.

\*https://www.macg.co/materiel/2019/03/ufc-que-choisir-un-indice-de-fiabilite-pas-tendre-pour-apple-105660

No.1 Most Reliable PC Brand in EU

			INDICE DE FIABILITÉ
	MSI	94	**
2	MICROSOFT	93	**
3	APPLE	91.6	**
4	ASUS	90.8	**
5	LENOVO	90.7	<b>**</b>
6	DELL	90.3	**
7	HP	90.1	



"MSI laptops offer some of the best displays in the business. The company also delivers top audio quality, and scored very well in our reviews category. If you're into gaming, this is one brand to watch." - LAPTOP Magazinedemands.



8 Cores

Up to **5.3** GHz Single core Turbo

Up to **50** % Performance boost

### **OUTPLAY THE COMPETITION**

Experience a 50% boost in computing from gen-to-gen. MSI Laptop equips the 10th Gen. Intel® Core™ i9 processor (Comet Lake H) with the upmost computing power to bring you an unparalleled gaming experience. Higher single core frequency is better for gaming experience.

\*Performance compared to i7-9750H. Specs varies by model.

i9-10980HK ↑ 50%

i7-10875H **140**%

i9-9880H

i7-9750H





### GET SUPER POWERS. RTX. IT'S ON. NVIDIA GEFORCE® RTX SUPER™ SERIES GRAPHICS

The new GeForce RTX SUPER Series has more cores and higher clocks for SUPER fast performance compared to previous-gen GPUs. See your games come to life with SUPER-fast ray tracing; delivers physically accurate shadows, reflections, and lighting. Tap into Tensor Cores for SUPER-powerful Al-processing. Advanced memory, performance boosts, and processing technologies make these GPUs the perfect weapon for hardcore gamers. Get your SUPER powers.

#### **GEFORCE RTX 2080 SUPER**

RTX 2080 SUPER 152%

GTX 1080 100%

**GEFORCE RTX 2070 SUPER & RTX 2070 & 2060** 

RTX 2070 SUPER 152%

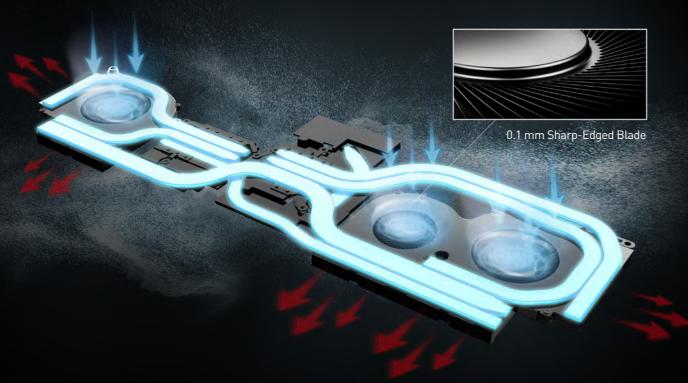
RTX 2070 141%

RTX 2060 127%

GTX 1070 100%

\*Performance may vary by system configuration and game settings.





### EXCLUSIVE COOLER BOOST TECHNOLOGY STAY COOL, STAY POWERFUL

To have extreme performance, an efficient cooling system is required to exhaust the heat. MSI's exclusive Cooler Boost Technology ensures optimal thermal dissipation. With the world's thinnest 0.1 mm sharpedged fan blade design, MSI enhances the fan airflow and provides the best gaming experience.

Cooler Boost TITAN







Packed to the legal flight limit, the 99.9Whr large battery capacity provides longer runtime and sustained power in unplugged circumstances.

VISUALS •





### 300Hz ULTRA-HIGH REFRESH RATE WORLD'S FASTEST GAMING DISPLAY

Get 5x the refresh rate over conventional laptop displays with the most vibrant and contrast visuals.

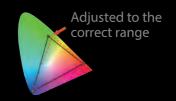
\*Optional. Actual specification may vary by configurations.



### TRUE COLOR 2.0 THE NEXT-TO-PERFECT COLOR PRESENTATION

MSI True Color Technology sets a new standard in developing a level of accuracy for display technology. Each display undergoes thorough examinations and extensive factory-calibration process, guaranteeing exceptional color fidelity of close to 100% sRGB.

Color Visible Range 100% sRGB





**Color Accuracy Enhancement** 

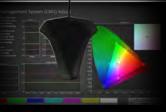
Auto Cloud Sync Color Management ICC Profile

**Color Accuracy Calibration** 





**Higher Compatibility for Games** 





**Anti-Blue Mode Night Shift** 

AUDIO ...



DYNAUDIO Sound by

### **TUNED TO PERFECTION EXPERIENCE THE SUPERIOR SOUND** WITH DUO WAVE SPEAKER

Feel the power of sound and experience a whole new level of audio excellence with MSI's new Duo Wave Speaker in world-class Dynaudio sound system. The passive radiator technology generates a sonorous bass and clean, crisp sound. The front-firing design provides a punchier and more accurate sound, enjoy the ultimate auditory sensation.





### Hi-Res HIGH RESOLUTION AUDIO READY **HEAR EVERY DETAIL**

Experience sound the way it's meant to be heard. With the ability to support up to 24bit / 192kHz sampling, hear the audio as it was created.

\*This specification may vary by model.



### **ALL NEW NAHIMIC 3** FOR NEXT LEVEL AUDIO IMMERSION

Get ready to be amazed by the all new Nahimic 3. With simple and intuitive new UI, the Nahimic 3 not only enhances in-game 3D surround sound, but it also offers even more finite control over your music, movies, and conference calls.





**VOICE LEVELER** 







HO AUDIO RECORDER



### MYSTIC LIGHT LIGHT IT UP WITH MYSTIC LIGHT

Showcase your ultimate RGB gaming theme with GE66 Raider. The new mystic light with panoramic aurora lighting design now expands across the entire front of the chassis. This grants granular control over lighting, creating virtually endless combinations in 16.8 million colors.

\*Lighting effects are only for illustration. Actual effect may vary by software





Through per-key illumination of the keyboard, you will receive real time game stat updates such as ammo levels and health levels. This keyboard is ergonomically-designed with 1.9mm of key travel for better responsive and tactile feedback, optimum WASD zone, anti-ghosting capability for up to 45 keys, mechanical-level shielding for solid feedback, and many more features gamers need to gain full control over their game.





\*SteelSeries Gaming Keyboard also available in multi-zone RGB lighting or single color lighting.

### MSI DRAGON CENTER FREE BUFF FOR YOUR RIG

MSI Dragon Center takes optimization to the next level with the new sleek UI. Not only does it monitor system performances but it also optimizes it through various customizable profiles.



### **Gaming Mode**

One-click does it all, optimize all your gaming needs

### **Game Highlights**

Capture and record your best moments

#### MSI Companion

Exclusive gaming on-screen-display interface lets you adjust settings in-game and provides quick monitor tracking as well

#### Crosshair

MSI exclusive Crosshair overlay helps you aim and shoot better on FPS gaming titles

#### **Battery Maste**

Manages battery health to extend the lifecycle of your battery



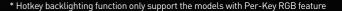
### MSI APP PLAYER SEEMLESS GAMING BETWEEN MOBILE AND PC

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.









### THE NEW MSI GAMING LAPTOPS

POWERED BY THE LATEST INTEL® CORE™PROCESSOR FAMILY AND GEFORCE RTX / GTX SERIES GRAPHICS











Povol The Tue Power of Ton Gen Processors 



Models	GS66 Stealth						
Medes	10SGS	10SFS	10SF	10SE			
Operating System		Windows 10 Home	e / Windows 10 Pro				
Processor		Up to 10th Gen. Intel	<sup>®</sup> Core™ i9 processor				
Graphics	NVIDIA® GeForce RTX™ 2080 SUPER™ with Max-Q design	NVIDIA® GeForce RTX <sup>TM</sup> 2070 SUPER <sup>TM</sup> with Max-Q design	NVIDIA® GeForce RTX™ 2070 with Max-Q design	NVIDIA® GeForce RTX™ 2060			
Performance			•				
DDR4-2666 Memory Slot	2 slots	2 slots	2 slots	2 slots			
USB Type-C			with PD charging 3.2 Gen2				
Cooler Boost Technology	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+			
Visuals							
300Hz IPS-level Gaming Display (Optional)	•	•	•	•			
240Hz IPS-level Gaming Display (Optional)	•	•	•	•			
True Color 2.0 Technology	•	•	•	•			
Matrix Display	1+2/0+2	1+2/0+2	1+2/0+2	1+2/0+2			
Audio							
Duo Wave Speaker	•	•	•	•			
Dynaudio	•	•	•	•			
Hi-Res Audio	•	•	•	•			
Nahimic 3	•	•	•	•			
Control							
Per-Key RGB Gaming Keyboard by SteelSeries	•	•	•	•			
IR Camera	•	•	•	•			
Battery capacity	99.9Whr	99.9Whr	99.9Whr	99.9Whr			
MSI Dragon Center	•	•	•	•			
Gaming Mode	•	•	•	•			
SteelSeries Engine 3	•	•	•	•			
Backlighting	Per-Key RGB	Per-Key RGB	Per-Key RGB	Per-Key RGB			
MSI App Player	•	•	•	•			
Silky Smooth Touchpad	•	•	•	•			
Streaming							
Killer DoubleShot Pro	•	•	•	•			
Killer Ethernet E3100	•	•	•	•			
Killer Wi-Fi 6	•	•	•	•			
Killer xTend Technology	•	•	•	•			



Models		GE66 Raider					
	10SGS	10SFS	10SF				
Operating System	Windows 10 Home / Windows 10 Pro						
Processor	Up	to 10th Gen. Intel® Core™ i9 proce	essor				
Graphics	NVIDIA <sup>®</sup> GeForce RTX™ 2080 SUPER™ with Max-Q design	NVIDIA® GeForce RTX™ 2070 SUPER™	NVIDIA <sup>®</sup> GeForce RTX™ 2070				
Performance							
DDR4-2666 Memory Slot	2 slots	2 slots	2 slots				
USB Type-C		1 x USB3.2 Gen2 with DP1.4 1 x USB3.2 Gen2x2					
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5	Cooler Boost 5				
Visuals							
300Hz IPS-level Gaming Display (Optional)	•	•	•				
240Hz IPS-level Gaming Display (Optional)	•	•	•				
True Color 2.0 Technology	•	•	•				
Matrix Display	1+3	1+3	1+3				
Audio							
Duo Wave Speaker	•	•	•				
Dynaudio	•	•	•				
Hi-Res Audio	•	•	•				
Nahimic 3	•	•	•				
Control							
Per-Key RGB Gaming Keyboard by SteelSeries	•	•	•				
Mystic Light	•	•	•				
Battery capacity	99.9Whr	99.9Whr	99.9Whr				
MSI Dragon Center	•	•	•				
Gaming Mode	•	•	•				
SteelSeries Engine 3	•	•	•				
Backlighting	Per-Key RGB	Per-Key RGB	Per-Key RGB				
MSI App Player	•	•	•				
Streaming							
FHD Camera	•	•	•				
Killer DoubleShot Pro	•	•	•				
Killer Ethernet E3100	•	•	•				
Killer Wi-Fi 6	•	•	•				
Killer xTend Technology	•	•	•				



### LIGHT EM UP

4E66 Raider

DRAGONSHIELD LIMITED EDITION



### Colie Wertz X MSI Laptops

Colie Wertz is a DigitalArtist, specializing in ConceptArt and Modeling. He has been involved in the movie industry for over 20 years. contributing to films such as the Star Wars Prequels, Transformers, Iron Man, Captain America: Civil War, RogueOne: Star Wars Story, and Bumblebee, to name a few.







# EVOLVE

BE ENCHANTED WITH THE DRAGON SPIRIT









# TOTAL DESIGNATION OF THE OFFICE AT 10 TIE OFFI

Models	G176	GT76 Titan	
	9SGS	9SFS	10SF
Operating System		Windows 10 Home / Windows 10	Pro
Processor	Up to 9th Gen. Intel® C	ore™ i9-9900K processor	10th Gen. Intel® Core™ i7-10750H processor
Graphics	NVIDIA® GeForce RTX™ 2080 SUPER™	NVIDIA <sup>®</sup> GeForce RTX™ 2070 SUPER™	NVIDIA® GeForce RTX™ 2070
Graphic Video Memory (max)	8 GB GDDR6	8 GB GDDR6	8 GB GDDR6
Performance			
DDR4-2666 Memory Slot	4 slots	4 slots	4 slots
USB Type-C	1 x Thunderbolt™ 3 +	1 x Type-C USB3.2 Gen2	1 x Thunderbolf™ 3 + 1 x Type-C USB3.2 Gen2
Cooler Boost Technology	Cooler Boost Titan	Cooler Boost Titan	Cooler Boost Titan
Visuals			
240Hz IPS-level Gaming Display (Optional)	•	•	•
144Hz IPS-level Gaming Display (Optional)	•	•	•
4K 100% Adobe RGB, IPS-level Display (Optional)	•	•	•
True Color 2.0 Technology	•	•	•
Matrix Display	1+3 / Surround	1+3 / Surround	1+3 / Surround
Audio		•	
Dynaudio	• w/ Woofer	• w/ Woofer	• w/ Woofer
Hi-Res Audio	•	•	•
Nahimic 3	•	•	•
Control			
Per-Key RGB Gaming Keyboard by SteelSeries	•	•	•
Mystic Light	•	•	•
MSI Dragon Center	•	•	•
Gaming Mode	•	•	•
SteelSeries Engine 3	•	•	•
Backlighting	Per-Key RGB	Per-Key RGB	Per-Key RGB
MSI App Player	•	•	•
Streaming			
Killer DoubleShot Pro	•	•	•
Killer Ethernet E3000	•	•	•
Killer xTend Technology	•	•	•
Killer Wi-Fi 6	•	•	•

# EVOLVE

BE ENCHANTED WITH THE DRAGON SPIRIT



Models	GS75 Stealth							
	10SGS	10SFS	10SF	10SE				
Operating System	Windows 10 Home / Windows 10 Pro							
Processor		Up to 10th Gen. Intel	® Core <sup>™</sup> i9 processor					
Graphics	NVIDIA® GeForce RTX™ 2080 SUPER™ with Max-Q design	NVIDIA® GeForce RTX™ 2070 SUPER™ with Max-Q design	NVIDIA <sup>®</sup> GeForce RTXTM 2070 with Max-Q design	NVIDIA® GeForce RTX™ 2060				
Graphic Video Memory (max)	8 GB GDDR6	8 GB GDDR6	8 GB GDDR6	6 GB GDDR6				
Performance								
DDR4-2666 Memory Slot	2 slots	2 slots	2 slots	2 slots				
USB Type-C			(with PD charging) 2 (with Display function)					
Battery Life	7 hours*	7 hours*	7 hours*	7 hours*				
Cooler Boost Technology	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+				
Visuals								
300Hz IPS-level Gaming Display (Optional)	•	•	•	•				
240Hz IPS-level Gaming Display (Optional)	•	•	•	•				
True Color 2.0 Technology	•	•	•	•				
Matrix Display	1+3/0+3	1+3/0+3	1+3/0+3	1+3/0+3				
Audio								
Duo Wave Speaker	•	•	•	•				
Dynaudio	•	•	•	•				
Hi-Res Audio	•	•	•	•				
Nahimic 3	•	•	•	•				
Control								
Per-Key RGB Gaming Keyboard by SteelSeries	•	•	•	•				
MSI Dragon Center	•	•	•	•				
Gaming Mode	•	•	•	•				
SteelSeries Engine 3	•	•	•	•				
Backlighting	Per-Key RGB	Per-Key RGB	Per-Key RGB	Per-Key RGB				
MSI App Player	•	•	•	•				
Silky Smooth Touchpad	•	•	•	•				
Streaming								
Killer DoubleShot Pro	•	•	•	• (Optional)				
Killer Gigabit Ethernet	•	•	•	•				
Killer Wi-Fi 6	•	•	•	• (Optional)				
Killer xTend Technology	•	•	•	• (Optional)				

\*Tested by MobileMark $^{\circ}$  2014 standard. The battery life will vary from specifications and system configuration.

### EVOLVE

BE ENCHANTED WITH THE DRAGON SPIRIT

GE Raider

Models	GE75 Raider							
	10SGS	10SFS	10SF					
Operating System	Windows 10 Home / Windows 10 Pro							
Processor	Up	Up to 10th Gen. Intel® Core™ i9 processor						
Graphics	NVIDIA® GeForce RTX™ 2080 SUPER™	NVIDIA <sup>®</sup> GeForce RTX™ 2070 SUPER™	NVIDIA® GeForce RTX™ 2070					
Graphic Video Memory (max)	8 GB GDDR6	8 GB GDDR6	8 GB GDDR6					
Performance								
DDR4-2666 Memory Slot	2 slots	2 slots	2 slots					
USB Type-C	USB3.2 Gen2	USB3.2 Gen2	USB3.2 Gen2					
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5	Cooler Boost 5					
Visuals								
240Hz IPS-level Gaming Display (optional)	•	•	•					
144Hz IPS-level Gaming Display (optional)	•	•	•					
True Color 2.0 Technology	•	•	•					
Matrix Display	1+2	1+2	1+2					
Audio								
Giant Speakers by Dynaudio	• W / Woofer	• W / Woofer	• W / Woofer					
Hi-Res Audio	•	•	•					
Nahimic 3	•	•	•					
Control								
Per-Key RGB Gaming Keyboard by SteelSeries	•	•	•					
MSI Dragon Center	•	•	•					
Gaming Mode	•	•	•					
SteelSeries Engine 3	•	•	•					
Backlighting	Per-Key RGB	Per-Key RGB	Per-Key RGB					
MSI App Player	•	•	•					
Streaming								
Killer DoubleShot Pro	•	•	•					
Killer Gigabit Ethernet	•	•	•					
Killer Wi-Fi 6	•	•	•					
Killer xTend Technology	•	•	•					

#### Nahimic 3 Control Per-Key RGB Gaming Keyboard by SteelSeries MSI Dragon Center Gaming Mode • SteelSeries Engine 3 Per-Key RGB Backlighting Per-Key RGB Per-Key RGB E VOLVE MSI App Player Streaming Gigabit Ethernet intel Wi-Fi 6 BE ENCHANTED WITH THE DRAGON SPIRIT

SP Leopard

Models

Processor

**Graphics** 

Performance DDR4-2666 Memory Slot

USB Type-C

Visuals

Audio Giant Speakers Hi-Res Audio

Matrix Display

Operating System

Graphic Video Memory (max)

Cooler Boost Technology

144Hz IPS-level Gaming Display (Optional)

10SDK Up to 10th Gen. Intel<sup>®</sup> Core™ i7 processor NVIDIA® GeForce® GTX 1660 Ti 6 GB GDDR6 USB3.2 Gen2 Cooler Boost 5 | Cooler Boost 5 | Cooler Boost 5 | Cooler Boost 5 Per-Key RGB

2 slots

•

1+2

•

**GP65 Leopard** 

10SEK

Windows 10 Home / Windows 10 Pro

NVIDIA®

GeForce

RTXTM 2060

6 GB GDDR6

2 slots

USB3.2 Gen2

1+2

Per-Key RGB

**GP75 Leopard** 

10SEK

Windows 10 Home / Windows 10 Pro

Up to 10th Gen. Intel® Core™ i7 processor

NVIDIA®

GeForce

RTXTM 2060

6 GB GDDR6

2 slots

USB3.2 Gen2

Cooler Boost 5

•

1+2

10SDK

NVIDIA®

GeForce®

GTX 1660 Ti

6 GB GDDR6

2 slots

USB3.2 Gen2

1+2

10SFK

NVIDIA®

GeForce

RTX™ 2070

8 GB GDDR6

2 slots

USB3.2 Gen2

1+2

Per-Key RGB

10SFK

NVIDIA®

GeForce

RTX<sup>™</sup> 2070

8 GB GDDR6

2 slots

USB3.2 Gen2

Cooler Boost 5

•

1+2

## EVOLVE

BE ENCHANTED WITH THE DRAGON SPIRIT

4L Leopard

Models			GL75 Le	eopard						G	L65 Leo	pard			
Models	10SFR	10SFK	10SER	10SEK	10SDR	10SDK	10SFR	10SFK	10SER	10SEK	10SDR	10SDK	10SCSR	10SCSK	10SCXR
Operating System						Wind	dows 10	Home /	Window	s 10 Pro					
Processor	Up t	o 10th G	en. Inteľ	<sup>®</sup> Core™	i7 proce	essor			Up to	10th Gen	. Intel® C	Core™ i7	process	or	
Graphics	NVIE GeFe RTX™	-		DIA® orce 12060	GeFo	DIA <sup>®</sup> orce <sup>®</sup> 660 Ti	GeF	DIA® orce 4 2070	GeF	DIA® force 1 2060	GeF	DIA® orce® 1660 Ti	GeF	DIA® orce® 1650 Ti	NVIDIA® GeForce® GTX 1650
Graphic Video Memory (max)	8 GB C	SDDR6	6 GB C	SDDR6	6 GB C	GDDR6	8 GB (	GDDR6	6 GB (	GDDR6	6 GB (	GDDR6	,	4 GB GD	DR6
Performance															
DDR4-2666 Memory Slot	2 sl	ots	2 sl	ots	2 sl	lots	2 s	lots	2 s	lots	2 s	lots		2 slots	
USB Type-C	USB3.2	Gen1	USB3.2	Gen1	USB3.2	Gen1	USB3.2	Gen1	USB3.2	Gen1	USB3.2	Gen1	ı	JSB3.2 G	en1
Cooler Boost Technology	Cooler	Boost 5	Cooler	Boost 5	Cooler	Boost 5	Cooler	Boost 5	Cooler	Boost 5	Cooler	Boost 5	C	Cooler Bo	ost 5
Visuals															
144Hz IPS-level Gaming Display (optional)	٠	·	٠	·	•	•	٠	•	•	•	•	•	•	•	•
120Hz IPS-level Gaming Display (optional)	•	·	•	·	•	•	•	•	•	•	•	•	•	•	•
Matrix Display	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2	1+2
Audio															
Giant Speakers	•	·	•	·	•	•	•	•	•	•	•	•	•	•	•
Hi-Res Audio	•	•	•	·	•	•	•	•	•	•	•	•	•	•	•
Nahimic 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Control															
Per-Key RGB Gaming Keyboard by SteelSeries		٠		·		•		•		•		•		•	
Gaming Keyboard by SteelSeries	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MSI Dragon Center	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Gaming Mode	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Backlighting	Red	Per- Key RGB	Red	Per- Key RGB	Red	Per- Key RGB	Red	Per- Key RGB	Red	Per- Key RGB	Red	Per- Key RGB	Red	Per- Key RGB	Red
MSI App Player	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•
Streaming															
Gigabit Ethernet	٠	٠	٠	·	•	•	•	•	•	•	•	•	•	•	•
Wi-Fi 6	•	•	•	·	•	•	•	•	•	•	•	•	•	•	•

## EVOLVE

BE ENCHANTED WITH THE DRAGON SPIRIT



Models		GF75	Thin		GF6	5 Thin	GF63 Thin	
	10SER	10SDR	10SCSR	10SCXR	10SER	10SDR	10SCSR	10SCXR
Operating System			Windo	ws 10 Home /	Windows 10	) Pro		
Processor			Up to 10th	n Gen. Intel® (	Core™ i7 pro	ocessor		
Graphics	NVIDIA® GeForce RTX™ 2060	NVIDIA <sup>®</sup> GeForce <sup>®</sup> GTX 1660 Ti	NVIDIA <sup>®</sup> GeForce <sup>®</sup> GTX 1650 Ti	NVIDIA <sup>®</sup> GeForce <sup>®</sup> GTX 1650	NVIDIA® GeForce RTX™ 2060	NVIDIA® GeForce® GTX 1660 Ti	NVIDIA® GeForce® GTX 1650 T with Max-Q design	NVIDIA® GeForce® i GTX 1650 with Max-Q design
Graphic Video Memory (max)	6 GB GDDR6	6 GB GDDR6	4 GB GDDR6	4 GB GDDR6	6 GB GDDR6	6 GB GDDR6	4 GB GDDR6	4 GB GDDR6
Performance								
DDR4-2666 Memory Slot	2 Slots	2 Slots	2 Slots	2 Slots	2 Slots	2 Slots	2 Slots	2 Slots
USB Type-C	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1
Battery Life	6+ hours*	6+ hours*	6+ hours*	6+ hours*	7 hours*	7 hours*	7 hours*	7 hours*
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5	Cooler Boost 3	Cooler Boost 3	Cooler Boost 5	Cooler Boost 5	Cooler Boost	Cooler Boost
Visuals								
144Hz IPS-level Gaming Display (optional)	•	•	•	•	•	•	•	•
120Hz IPS-level Gaming Display (optional)	•	•	•	•	•	•	•	•
IPS Level Display	•	•	•	•	•	•		•
Audio								
Hi-Res Audio	•	•	•	•	•	•	•	•
Audio Boost	•	•	•	•	•	•	•	•
Nahimic 3	•	•	•	•	•	•	•	•
Control								
MSI Dragon Center	•	•	•	•	•	•	•	•
Gaming Mode	•	•	•	•	•	•	•	•
Backlighting	Red	Red	Red	Red	Red	Red	Red	Red
MSI App Player	•	•	•	•	•	•	•	•
Streaming								
Gigabit Ethernet	•	•	•	•	•	•		•
intel Wi-Fi 6	•	•	•	•	•	•	•	•

\*Tested by MobileMark® 2014 standard. The battery life will vary from specifications and system configuration.

# POWERED BY THE MOST ADVANCED TECHNOLOGY

Built by the latest breakthrough 7nm technology, AMD Ryzen™ 4000 Series Mobile Processors with Radeon™ Graphics provide desktop-caliber performance in gaming laptops, enjoy immersive multimedia and gaming experiences.



nm TECHNOLOGY GAMING LAPTOP

Brave 15 / 17

Models	Bravo 15	Brav	ro 17
	A4DDR	A4DDK	A4DDR
Operating System	٧	Vindows 10 Home / Windows 10 Pr	0
Processor	Next Generation AMD Ryzen <sup>TM</sup> 4000 Series Mobile Processors	Next Generation AMD Ryzen <sup>TM</sup> 4000 Series Mobile Processors	Next Generation AMD Ryzen™ 4000 Series Mobile Processors
Graphics	AMD Radeon™ RX 5500M	AMD Radeon™ RX 5500M	AMD Radeon™ RX 5500M
Performance			
DDR4-3200 Memory Slot	2 slots	2 slots	2 slots
USB Type-C	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5	Cooler Boost 5
Visuals			
144Hz IPS-level Gaming Display (optional)	•	•	•
120Hz IPS-level Gaming Display (optional)	•	•	•
AMD Radeon FreeSync Premium technology	•	•	•
Audio			
Hi-Res Audio	•	•	•
Nahimic 3	•	•	•
Control			
MSI Dragon Center	•	•	•
Gaming Mode	•	•	•
Backlighting	RED	Per-Key RGB	RED
MSI App Player	•	•	•
Streaming			
Gigabit Ethernet	•	•	•
Wi-Fi 6	•	•	•





FIRST 7nm TECHNOLOGY GAMING LAPTOP

ALpha 15

Models	Alpha 15				
Modes	A3DDK	A3DD			
Operating System	Windows 10 Home / Windows 10 Pro				
Processor	Up to AMD Ryzen™	7-3750H processor			
Graphics	AMD Radeon™ RX 5500M	AMD Radeon™ RX 5500M			
Graphic Video Memory (max)	4 GB GDDR6	4 GB GDDR6			
Performance					
DDR4 Memory Slot	2 slots	2 slots			
USB Type-C	USB3.2 Gen1	USB3.2 Gen1			
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5			
Visuals					
144Hz IPS-level Gaming Display (Optional)	•	•			
120Hz IPS-level Gaming Display (optional)	•	•			
AMD Radeon FreeSync Premium technology	•	•			
Matrix Display	1+2	1+2			
Audio					
Giant Speakers	•	•			
Hi-Res Audio	•	•			
Nahimic 3	•	•			
Control					
Per-Key RGB Gaming Keyboard by SteelSeries	•				
Gaming Keyboard by SteelSeries		•			
MSI Dragon Center	•	•			
Gaming Mode	•	•			
SteelSeries Engine 3	•				
Backlighting	Per-Key RGB	RED			
MSI App Player	•	•			
Streaming					
Killer Gigabit Ethernet	•	•			
802.11ac Wi-Fi	•	•			

Modern series Content Creation Create Your Momenta



### Free from Limitations

Free from Limitations MSI Content Creation Series features the latest 10th Gen. processors, delivers utmost performance and lightweight portability, keep you in the flow wherever you go. Up to 8-core powerful processors can speed up the creative software, enabling on-the go creators to blitz through demanding tasks faster than ever before.

Performance Boost

Processor

Faster performance when opening 4K raw file and work saving. Photoshop

Edit and organize photos more quickly and easily with incredible power.

Speed up the loading of the footage and 4K video editing with advanced power.





### Spectacular Visual Experience

Visualization matters, especially for content creations. The exclusive True Pixel display delivers true-to-life images. Highlighting five significant features – 4K resolution, AdobeRGB 100% color gamut, Delta E<2, True Color Technology and Verified by CalMan- tools necessary for creative work, design, photo and video editing.

\* Display accuracy and Delta-E value may change over time as displays age due to normal wear and tear. Periodical color calibration is recommended for optimal color accuracy.













High Resolution >220 PPI Wide Color Range Per-unit Factory Calibration

Color Accuracy

Verified by industry leading color calibration solution provider.





### World's First Creator Laptop with Mini LED Display

MSI Creator 17 is the world's 1st laptop to come with new revolutionary technology, the Mini LED display, which can provide top-notch, true-to-life color accuracy and visual entertainment experience for creative work, design, photo and video editing.







DisplayHDR 1000





Wide Color Range 100% DCI-P3







### Create Splendid Moments Creator 17



World's First Creator Laptop with Mini LED Display

Models		Creator 17							
Models	A10SGS	A10SFS	A10SF	A10SE					
Operating System		Windows 10 Home / Windows 10 Pro							
Processor		Up to 10th Gen. Intel® Co	ore™ i7-10875H processor						
Graphics	NVIDIA® GeForce® RTX 2080 SUPER™ with Max-Q design	NVIDIA® GeForce® RTX 2070 SUPER™ with Max-Q design	NVIDIA® GeForce® RTX 2070 with Max-Q design	NVIDIA® GeForce® RTX 2060					
Graphic Video Memory (max)	8 GB GDDR6	8 GB GDDR6	8 GB GDDR6	6 GB GDDR6					
Performance									
DDR4-2666 Memory Slot	2 Slots	2 Slots	2 Slots	2 Slots					
USB Type-C			(with PD charging) (2)(with Display function)						
Cooler Boost Technology	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+	Cooler Boost Trinity+					
Visuals									
4K mini LED IPS-level Display (Optional)	•	•	•	•					
4K IPS-level Display (Optional)	•	•	•	•					
True Color 2.0 Technology	•	•	•	•					
Matrix Display	1+3 / 0+3	1+3 / 0+3	1+3 / 0+3	1+3 / 0+3					
Audio									
Hi-Res Audio	•	•	•	•					
Nahimic 3	•	•	•	•					
Control									
IR Camera	•	•	•	•					
MSI Creator Center	•	•	•	•					
Fingerprint Sensor	•	•	•	•					
Backlighting	White	White	White	White					
Silky Smooth Touchpad	•	•	•	•					
Streaming									
intel Wi-Fi 6	•	•	•	•					





Models	Creat	or 15M	Creat	or 17M
Models	A10SE	A10SD	A10SE	A10SD
Operating System	Windows 10 Home	e / Windows 10 Pro	Windows 10 Hom	e / Windows 10 Pro
Processor	Up to 10th Gen. Intel	® Core™ i7 processor	Up to 10th Gen. Intel	® Core™ i7 processor
Graphics	NVIDIA® GeForce RTX™ 2060	NVIDIA® GeForce® GTX 1660 Ti with Max-Q design	NVIDIA® GeForce RTX™ 2060	NVIDIA® GeForce® GTX 1660 Ti with Max-Q design
Graphic Video Memory (max)	6 GB GDDR6	6 GB GDDR6	6 GB GDDR6	6 GB GDDR6
Performance				
DDR4-2666 Memory Slot	2 Slots	2 Slots	2 Slots	2 Slots
USB Type-C	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1	USB3.2 Gen1
Cooler Boost Technology	Cooler Boost 5	Cooler Boost 5	Cooler Boost 5	Cooler Boost 5
Visuals				
144Hz IPS-level Display (optional)	•	•	•	•
IPS-Level Display (Optional)	•	•	•	•
True Color 2.0 Technology (optional)	•	•	•	•
Audio				
Hi-Res Audio	•	•	•	•
Nahimic 3	•	•	•	•
Control				
Creator Center	•	•	•	•
Backlighting	White	White	White	White
Streaming				
Wi-Fi 6	•	•	•	•

# MELESS MOMENTS

Prestige 14

Models		Prestige 15			
Models	A10SC	A10RAS	A10RB	A10SC	
Operating System					
Processor		Up to 10th Gen. Intel® Core™ i7 U-process			
Graphics	NVIDIA® GeForce® GTX 1650 with Max-Q Design	NVIDIA® GeForce® MX330	NVIDIA® GeForce® MX250	NVIDIA® GeForce® GTX 1650 with Max-Q Design	
Colors	WhitePure White / Co	WhitePure White / Carbon Grey / Rose Pink		Carbon Grey	
Graphic Video Memory (max)	4GB GDDR5	2 GB GDDR5	2 GB GDDR5	4GB GDDR5	
Performance					
DDR4-2666 Memory Slot	LPDDR 3 on board	1 Slot	1 Slot	2 Slot	
USB Type-C	2 x Thunderbolt™ 3 (with PD charging)	2 x Thunderbolt™ 3 (with PD charging)	2 x Thunderbolt™ 3 (with PD charging)	2 x Thunderbolt™ 3 (with PD charging)	
Cooler Boost Technology	Cooler Boost	Cooler Boost	Cooler Boost	Cooler Boost 3	
Battery Life	10 hrs*	10 hrs*	10 hrs*	16 hrs**	
Visuals					
True Pixel Display (optional)	•	•	•	•	
IPS Level Display (optional)	•	•	•	•	
Audio					
Nahimic 3	•	•	•	•	
Control					
MSI Creator Center	•	•	•	•	
IR Camera	•	•	•		
Fingerprint Sensor	•	•	•	•	
Backlighting	White	White	White	White	
Silky Smooth Touchpad	•	•	•	•	
Streaming					
intel Wi-Fi 6	•	•	•	•	

\* Tested by MobileMark® 2014 office productivity scenario. Test configuration: Prestige 14 A10SC / Super battery mode. The battery life will vary from specifications and system configuration.

\*\* Tested by MobileMark® 2014 office productivity scenario. Test configuration: Prestige 15 A10SC / Super battery mode. The battery life will vary from specifications and system configuration.









Pure White

Carbon Grey

Rose Pink



Create Wonderful Moments

Modern 14 / 15

Models	Mode	Modern 14			Modern 15		
Models	A10RB	A10M	A10RAS	A10RB	A10M		
Operating System	Windows 10 Home	Windows 10 Home / Windows 10 Pro		Windows 10 Home / Windows 10 Pro			
Processor	Up to 10th Gen. Intel®	Core™ i7 U-processor	Up to 10th Gen. Intel® Core™ i7 U-processor				
Graphics	NVIDIA® GeForce® MX250	Intel® UHD Graphics	NVIDIA <sup>®</sup> GeForce <sup>®</sup> MX330	NVIDIA <sup>®</sup> GeForce <sup>®</sup> MX250	Intel® UHD Graphics		
Graphic Video Memory (max)	2 GB GDDR5	-	2 GB GDDR5	2 GB GDDR5	-		
Colors	Carbon Gary / Silver	Carbon Gary / Silver	Onyx Black / Space Grey	Onyx Black	Onyx Black / Space Grey		
Performance							
DDR4-2666 Memory Slot	1 Slots	1 Slots	2 Slots	2 Slots	2 Slots		
USB Type-C	2 x USB3.2 Gen1	2x USB3.2 Gen1	1 x USB3.2 Gen1	1 x USB3.2 Gen1	1 x USB3.2 Gen1		
Cooler Boost Technology	Cooler Boost 3	Cooler Boost	Cooler Boost 3	Cooler Boost 3	Cooler Boost 3		
Battery Life	10 hours*	UP to 11hours	9 hours***	9 hours***	9 hours***		
Visuals			1	1			
IPS Level Display	•	•	•	•	•		
True Color 2.0 Technology	•	•	•(optional)	•(optional)	•(optional)		
Audio							
Nahimic 3	•	•	•	•	•		
Control							
MSI Creator Center	•	•	•	•	•		
Backlighting	White	White	White	White	White		
Streaming							
802.11ac Wi-Fi	•	•	•	•	•		

\*Tested by MobileMark® 2014 standard. The battery life will vary from specifications and system configuration.

\*\*Up to 11 hrs on Modern 14 A10M, 10 hrs on Modern 14 A10RB.

\*\*\* Tested by MobileMark® 2014 office productivity scenario. Test configuration: Modern 15 A10RB / Full HD 60Hz display / Super battery mode.

The battery life will vary from specifications and system configuration.

### 9<sup>th</sup> GEN INTEL<sup>®</sup> CORE™ i9 PROCESSOR

Enjoy faster rendering with up to 45% performance gain!

\* Optional. Performance compared to previous gen i7







#### NVIDIA® QUADRO RTX™ SERIES GRAPHICS CARD

Powered by the NVIDIA Turing™ architecture and the NVIDIA RTX<sup>TM</sup> platform, bringing the most significant advancement in computer graphics in over a decade to professional workflows.



#### ISV CERTIFICATION

Officially recognized by 90% of major ISVs in the AEC Industry, media & entertainment, automobile, and simulation fields such as Autodesk, Dassault Systems, Adobe, and more.



























WS75 BEYOND REAL more than real

| UP TO 9<sup>th</sup> GEN INTEL® CORE™ i9 PROCESSOR | WINDOWS 10 PRO | | 17.3" FHD IPS-LEVEL THIN BEZEL, NTSC 72% |





msi







### CREATOR CENTER

A software for optimizing your workflow!

• Optimize ISV apps performance with a CLICK



Creator Center allows you to adjust performance settings for the ISV applications including SolidWorks, CATIA, AutoCAD, ANSYS, and more.

### Supported ISV Applications

SolidWorks 2019	Maya 2019	Sketchup 2019
CATIA VR-6R2017	Revit 2019	PTC Creo 5.0
3ds Max 2019	Alias AutoStudio 2019	Siemens NX 11
AutoCAD 2019	VRED Pro 2018	Solid Edge 2019
Inventor 2019	Moldflow Insight 2018	ANSYS 18.2
Rhinoceros 6	Bentley Micro Station V8i	Keyshot 7

### MILITARY-GRADE RELIABILITY AND DURABILITY



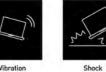


The MSI Mobile Workstation meets the MIL-STD-810G standards covering a wide range of conditions.





5 ~ 500Hz & 3 axes; 3hrs per axial test





20G, 11ms, 18 times

Mechanical Vibrations of











35 ~ 71°C for 168hrs

Low Temperature -33 - -25°C for 168hrs

\*Depends on each models

4,572m for 1hr

### IPS-LEVEL THIN BEZEL PANEL





The 4K Display offers exceptional color fidelity and a high contrast rate, providing an accurate and vivid window that best depicts your creation.

The premium glass touchpad offers an enlarged surface area and an extremely smooth finish, perfect for all your clicks, scrolls, and multitouch gestures.

### PRIVACY AND SECURITY

### FINGERPRINT READER

The built-in fingerprint sensor is designed for high-privacy protection and business security.





#### **DISCRETE TPM 2.0**

TPM 2.0 is a secure crypto-processor technology that aids with actions such as generating, storing, and limiting the use of cryptographic keys.





**WS65** 

15.6" FHD IPS-level







17.3" FHD IPS-level with Thin Bezel/ 4K





















<sup>\*</sup>Tested by MobileMark® 2014 Standard.

<sup>\*</sup>Battery life will vary from specifications depending on model, setup configuration, applications used, features utilized and power management settings.

	WILEIE22-VC \2000 5Y5 VC   DI2
е	akerx 2
)	1x Type-C USB3.2 Gen1,3x Type-A USB3.2 Gen1, 1x SD (xC/HC) Card Reader, 1x HDMI(4K@30Hz) 1.4, 1x Mini-DisplayPort 1.2
	6-Cell, 51Whr Battery /150W
2	68.5 x 27.5mm
_	
_	

Models	WS75				
Models	9TL	9	TK		9TJ
Operating System	Windows 10 Home / Windows 10 Pro				
Processor	9th Gen. Intel® Core™ i7 & i9 / Xeon® processor				
Graphics	NVIDIA® Quadro® RTX™ 4000 NVIDIA® Quadro® RTX™ 3000 NVIDIA® Quadro® T2000				VIDIA® Quadro® T2000
Display		17.3" FHD IPS-level Thir	n Bezel (72% NTSC) / 4k		
Memory	DDR4-2	2666 SO-DIMM (Max 640	GB) /ECC optional (Ma	ax 32 GB)	
Storage	1x M.2 2280 SSD Combo (NVMe PCIe Gen3 x4 / SATA ) 1x M.2 2280 NVMe PCIe Gen3 x4 SSD 1x M.2 2280 SATA SSD (PCIe SSD with RAID 0/1 support / SATA SSD with RAID 0/1 support)				
Webcam		HD we	ebcam		
Input	Sin	gle Backlit Keyboard (V	Vhite), SilkyGlass Touch	pad	
Security		Fingerprint Reade	er, Discrete TPM 2.0		
LAN/WLAN		GB Lan/ Intel Wirele	ss802.11ac(2x2)+ BT5		
Audio		2V	Vx2		
I/O Port	USB-A 3.2 Gen 2 x 3, USB-C3.2 Gen 1 x 1, Thunderbolt 3 (Type-C USB3.2) x 1, HDMI 2.0 x 1, Mic x 1, Headphone-out x 1, Micro SD slot x 1				
Battery/Adapter	82Whr Battery / 230W Slim Type	82Whr Battery	/ 180W Slim Type	82Whr	Battery / 180W Slim Type
Weight/Dimension	2.28kg / 396.1 x 259.4 x 18.9 mm				
Models		W	\$65		
models	9TM	9TL	9TK		9TJ
Operating System		Windows 10 Home	e / Windows 10 Pro		
Processor	9th Gen. Int	rel® Core™ i7 & i9 / Xec	eon® processor (Xeon optional for 9TJ)		·J)
Graphics		A®Quadro® RTX 4000	NVIDIA®Quadro® R		NVIDIA®Quadro® T2000
Display	16GB/GDDR6	8GB/GDDR6	6GB/GDDR Bezel (72% NTSC) / 4k		4GB/GDDR5
Memory	UUS		, ,		
Storage	DDR4-2666 SO-DIMM / ECC (optional for 9TJ), Max 64GB  1x M.2 2280 SSD Combo (NVMe PCIe Gen3 x4 / SATA ),  1x M.2 2280 PCIe Gen3 x 4 SSD  (PCI-e SSD with RAID 0 & RAID 1 support)				
Webcam	HD webcam				
Input	Single Backlit Keyboard (White), Silky Smooth Touchpad				
Security	Fingerprint Reader, Discrete TPM 2.0				
LAN/WLAN	GB Lan/ Intel Wireless802.11ac(2×2)+ BT5				
Audio			Vx2		
I/O Port	USB 3.2 Type-A x 3, Thunderbolt (Type-C USB3.2) x1, HDMI 2.0 x1, mDP 1.4 x1, Mic-in, Headphone-out x1				
Battery/Adapter	82Whr Battery / 230W Slim Type   82Whr B	attery / 230W Slim Type	82Whr Battery / 230W	Slim Type 8	32Whr Battery / 180W Slim
Weight/Dimension	1.88kg / 357.7 x 247.7 x 17.9mm				

#### MSI recommends Windows 10 Pro.

Madala	WE65		WE75			
Models	9TJ	9TI	9TK	9TJ		
Operating System	Windows 10 Home / Windows 10 Pro					
Processor	Up to 9th Gen. Intel® Core™ i7/ Xeon® processor		9th Gen. Intel® Core™ i7/ Xeon® processor			
Graphics	NVIDIA® Quadro® T2000	NVIDIA® Quadro® T1000	NVIDIA® Quadro® RTX™ 3000	NVIDIA® Quadro® T2000		
Display	15.6" FHD IPS-level T	hin Bezel (72% NTSC)	17.3" FHD IPS-level T	hin Bezel (72% NTSC)		
Memory	DDR4-2666 orDDR4-2400	DDR4-2666 orDDR4-2400 ECC optional (Max64 GB)		ECC optional (Max64 GB)		
Storage	1x M.2 2280 SSD Combo (NVMe PCIe Gen3 x4 / SATA ) 1x 2.5" HDD	1x M.2 2280 SSD Combo (NVMe PCIe Gen3 x4 / SATA ) 1x 2.5" HDD	1x M.2 2280 SSD Combo (NVMePCleGen3 x4 / SATA ), 1x M.2 2280 SSD (NVMePCleGen3 x4) (PCI-e SSD with RAID 0 & RAID 1 support), 1x 2.5" HDD	1x M.2 2280 SSD Combo (NVMePCleGen3 x4 / SATA ), 1x 2.5" HDD		
Webcam	HD we	ebcam	HD we	ebcam		
Input	Single Backlit Keyboo	Single Backlit Keyboard (White), Touchpad		ard (White), Touchpad		
Security	Fingerprint Reade	Fingerprint Reader, Discrete TPM 2.0		Fingerprint Reader, Discrete TPM 2.0		
LAN/WLAN	GB Lan / Intel Wireless-ax (WiFi 6) + BT5	GB Lan / Intel Wireless-ax (WiFi 6) + BT5	GB Lan/ Intel Wireless802.11ac(2x2)+ BT5	GB Lan/ RTL8111HS + Intel Wireless-AC 9560 2x2 AC + BT		
Audio	2Wspe	2Wspeakerx 2		3Wspeakerx 2		
I/O Port	1x Type-C USB3.1 Gen1, 3x Type-A USB3.1 Gen1, 1x SD (XC/HC) Card Reader, 1x RJ45, 1x Mic, 1x Headphone 1x HDMI(4K@30Hz) 1.4, 1x Mini- DisplayPort 1.2	1xType-C USB3.1 Gen1, 3x Type-A USB3.1 Gen1, 1xSD (XC/HC) Card Reader, 1x RJ45, 1x Mic, 1x Headphone 1x HDMI(4K@30Hz) 1.4, 1x Mini- DisplayPort 1.2	1x Type-C USB3.2 Gen2, 1x Type-A USB3.2 Gen2, 2x Type-A USB3.2 Gen1, 1x SD (XC/HC) Card Reader, 1x HDM(4K@60Hz) 2.0, 1x Mini- DisplayPort 1.2	1x Type-C USB3.2 Gen1,3x Type-A USB3.2 Gen1, 1x SD (xC/HC) Card Reader, 1x HDMI(4K@30Hz) 1.4, 1x Mini-DisplayPort 1.2		
Battery/Adapter	6-Cell, 51Whr Battery /150W	6-Cell, 51Whr Battery /150W	6-Cell, 51Whr Battery / 180W	6-Cell, 51Whr Battery /150W		
Weight/Dimension	2,23kg / 357.7x	248 x 26.9 mm	2.6kg / 397 x 268.5 x 27.5mm			
		WF	P65			
Models	9TH					
Operating System	Windows 10 Home / Windows 10 Pro					
Processor	9th Gen. Intel® Core™ i7 & i5 processor					
Graphics	NVIDIA® Quadro® P620					
Display	15.6" FHD IPS-level with Thin Bezel					
Memory	DDR4-2666 SO-DIMM (Max 64 GB)					
Storage	1 x M.2 SSD Combo Solot (NVMePCleGen3/SATA), 1 x HDD					
Webcam	HD webcam					
	****					

Single Backlit Keyboard (White) GB Lan/ Intel Wireless802.11ac(2x2)+ BT5

2 x 2W Speaker 1x USB Type-C 3.2 Gen1, 3 x USB Type-A 3.2 Gen1, 1x RJ45, 1x HDMI 1.4,1x Headphone-out, 1x Mic-in

3 Cell, 51 Whr Battery & 120W Adapter

1.86kg/359 x 254 x 21.7 mm

LAN/WLAN Audio

Battery/Adapter

Weight/Dimension

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