



**MSI Gaming GT76 9SG-064PL Titan Intel® Core™ i9 i9-9900K Laptop 43,9 cm (17.3") 4K Ultra HD 64 GB DDR4-SDRAM 2,02 TB HDD+SSD NVIDIA® GeForce RTX™ 2080 Wi-Fi 6 (802.11ax) Windows 10 Pro Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:** GT76  
9SG-064PL

**Product name :** GT76  
9SG-064PL Titan

- Windows 10 Pro 64-bit  
- Intel Core i9-9900K (16MB Cache, 3.6GHz)  
- 43.9 cm (17.3") 4K Ultra HD 3840 x 2160, NVIDIA GeForce RTX 2080 (8GB GDDR6)  
- 64GB DDR4-SDRAM & 1000GB HDD, 1024GB SSD  
Intel Core i9-9900K (16MB Cache, 3.6GHz), 64GB DDR4-SDRAM, 1000GB HDD, 1024GB SSD, 43.9 cm (17.3") 4K Ultra HD 3840 x 2160, Intel UHD Graphics 630, NVIDIA GeForce RTX 2080 (8GB GDDR6), LAN, WLAN, Bluetooth, Webcam, Windows 10 Pro 64-bit  
MSI Gaming GT76 9SG-064PL Titan. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-9900K, Processor frequency: 3,6 GHz. Display diagonal: 43,9 cm (17.3"), HD type: 4K Ultra HD, Display resolution: 3840 x 2160 pixels. Internal memory: 64 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 2,02 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® UHD Graphics 630. Operating system installed: Windows 10 Pro. Product colour: Black



Design		Network	
Product type *	Laptop	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Product colour *	Black	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Form factor *	Clamshell		
Market positioning	Gaming	Antenna type	2x2
Display		Ethernet LAN	✓
Display diagonal *	43,9 cm (17.3")	Ethernet LAN data rates	10,100,1000 Mbit/s
Display resolution *	3840 x 2160 pixels	Bluetooth	✓
Touchscreen *	✗	Bluetooth version	5.1
HD type	4K Ultra HD	Ports & interfaces	
LED backlight	✓	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	4
Native aspect ratio	16:9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Dual-screen	✗	Ethernet LAN (RJ-45) ports	1
Processor		HDMI ports quantity *	1
Processor manufacturer *	Intel	Mini DisplayPorts quantity	1
Processor family *	Intel® Core™ i9	Headphone outputs	1
Processor generation	9th gen Intel® Core™ i9	Microphone in	✓
Processor model *	i9-9900K	USB Type-C DisplayPort Alternate Mode	✓
Processor cores	8	Performance	
Processor threads	16	Motherboard chipset	Intel Z390
Processor boost frequency	5 GHz	Keyboard	
Processor frequency *	3,6 GHz	Pointing device	Touchpad
System bus rate	8 GT/s	Numeric keypad *	✓
Processor cache	16 MB	Keyboard backlit	✓
Processor cache type	Smart Cache	Keyboard backlit colour	Various
Processor socket	LGA 1151 (Socket H4)	Windows keys	✓
Processor lithography	14 nm	Software	
Processor operating modes	64-bit	Operating system architecture	64-bit
Processor codename	Coffee Lake		
Thermal Design Power (TDP)	95 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Software	
PCI Express slots version	3.0	Operating system installed *	Windows 10 Pro
PCI Express configurations	1x16, 2x8, 1x8+2x4	<b>Processor special features</b>	
Memory		Intel® Identity Protection Technology (Intel® IPT)	✓
Internal memory *	64 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Internal memory type	DDR4-SDRAM	Intel® Turbo Boost Technology	2.0
Memory form factor	SO-DIMM	Enhanced Intel SpeedStep Technology	✓
Memory slots	4x SO-DIMM	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum internal memory *	128 GB	Intel Clear Video Technology	✓
Storage		Intel® InTru™ 3D Technology	✓
Total storage capacity *	2,02 TB	Intel® Quick Sync Video Technology	✓
Storage media *	HDD+SSD	Intel® AES New Instructions (Intel® AES-NI)	✓
Total HDDs capacity	1 TB	Intel Trusted Execution Technology	✓
Number of HDDs installed	1	Intel VT-x with Extended Page Tables (EPT)	✓
HDD capacity	1 TB	Intel® Secure Key	✓
Total SSDs capacity	1,02 TB	Intel TSX-NI	✓
Number of SSDs installed	2	Intel Stable Image Platform Program (SIPP)	✓
SSD capacity	512 GB	Intel® OS Guard	✓
SSD interface	NVMe	Intel Software Guard Extensions (Intel SGX)	✓
NVMe	✓	Intel 64	✓
SSD form factor	M.2	Execute Disable Bit	✓
Optical drive type *	✗	Idle States	✓
Card reader integrated	✓	Thermal Monitoring Technologies	✓
Compatible memory cards	MicroSD (TransFlash)	Processor package size	37.5 x 37.5 mm
Graphics		Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Discrete graphics card model *	NVIDIA® GeForce RTX™ 2080	Scalability	15
Discrete graphics card memory	8 GB	CPU configuration (max)	1
Discrete graphics memory type	GDDR6	Embedded options available	✗
On-board graphics card *	✓	Thermal solution specification	PCG 2015D
Discrete graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card family	Intel® UHD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® UHD Graphics 630	Processor ARK ID	186605
On-board graphics card base frequency	350 MHz	Battery	
On-board graphics card dynamic frequency (max)	1200 MHz	Battery technology	Lithium-Ion (Li-Ion)
Maximum on-board graphics card memory	64 GB	Number of battery cells	8
On-board graphics card DirectX version	12.0	Battery capacity *	90 Wh
On-board graphics card OpenGL version	4.5	Power	
On-board graphics card ID	0x3E98	AC adapter power	230 W
Number of discrete graphics cards installed	1	DC-in jack	✓
CUDA	✓	Weight & dimensions	
Audio		Width	397 mm
Number of built-in speakers	2	Depth	330 mm
Speaker power	2 W	Height (front)	3,3 cm
Built-in subwoofer	✓	Height (rear)	4,2 cm
Built-in microphone	✓	Weight *	4,2 kg
Camera		Packaging content	
Front camera	✓	AC adapter included *	✓
Front camera signal format	720p	Other features	
Front camera HD type	HD	3D	✗
Video capturing speed	30 fps		
Network			
Wi-Fi	✓		

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