



**MSI Workstation WS65 9TK-899CA laptop Intel® Core™ i7
i7-9750H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR4-
SDRAM 1 TB SSD NVIDIA Quadro RTX 3000 Wi-Fi 5 (802.11ac)
Windows 10 Pro Black**



Brand : MSI

Product family: Workstation

Product code: WS65
9TK-899CA

Product name : WS65
9TK-899CA

- Windows 10 Pro 64-bit
- Intel Core i7-9750H (12MB Cache, 2.6GHz)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA Quadro RTX 3000 (6GB GDDR6)
- 32GB (2666MHz) DDR4-SDRAM (2 x 16) & 512GB SSD

Intel Core i7-9750H (12MB Cache, 2.6GHz), 32GB DDR4-SDRAM, 1000GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA Quadro RTX 3000 (6GB GDDR6), LAN, WLAN, Bluetooth, Webcam, Windows 10 Pro 64-bit

MSI Workstation WS65 9TK-899CA. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-9750H, Processor frequency: 2.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 32 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 630. Operating system installed: Windows 10 Pro. Product colour: Black

Design		Network	
Product type *	Mobile workstation	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Product colour *	Black	Antenna type	2x2
Form factor *	Clamshell	Ethernet LAN	✓
Display		Ethernet LAN data rates	10,100,1000 Mbit/s
Display diagonal *	39.6 cm (15.6")	Bluetooth	✓
Display resolution *	1920 x 1080 pixels	Bluetooth version	5.0
Touchscreen *	✗	Ports & interfaces	
HD type	Full HD	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
LED backlight	✓	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Native aspect ratio	16:9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Dual-screen	✗	Ethernet LAN (RJ-45) ports	1
Maximum refresh rate	60 Hz	HDMI ports quantity *	1
NTSC coverage (typical)	72%	Mini DisplayPorts quantity	1
sRGB coverage (typical)	100%	Headphone outputs	1
Processor		Microphone in	✓
Processor manufacturer *	Intel	USB Type-C DisplayPort Alternate Mode	✓
Processor family *	Intel® Core™ i7	Performance	
Processor generation	9th gen Intel® Core™ i7	Motherboard chipset	Intel® HM370
Processor model *	i7-9750H	Keyboard	
Processor cores	6	Pointing device	Touchpad
Processor threads	12	Numeric keypad *	✗
Processor boost frequency	4.5 GHz	Keyboard backlight	✓
Processor frequency *	2.6 GHz	Keyboard backlight colour	White
System bus rate	8 GT/s	Windows keys	✓
Processor cache	12 MB	Software	
Processor cache type	Smart Cache	Operating system architecture	64-bit
Processor socket	BGA 1440		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Coffee Lake		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		

Processor		Software	
Tjunction	100 °C	Operating system installed *	Windows 10 Pro
Maximum number of PCI Express lanes	16	Processor special features	
PCI Express slots version	3.0	Intel® My WiFi Technology (Intel® MWT)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Internal memory *	32 GB	Intel® Turbo Boost Technology	2.0
Internal memory type	DDR4-SDRAM	Enhanced Intel SpeedStep Technology	✓
Memory clock speed	2666 MHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory form factor	SO-DIMM	Intel Clear Video Technology	✓
Memory layout (slots x size)	2 x 16 GB	Intel® InTru™ 3D Technology	✓
Memory slots	2x SO-DIMM	Intel® Quick Sync Video Technology	✓
Maximum internal memory *	64 GB	Intel Flex Memory Access	✓
Storage		Intel® AES New Instructions (Intel® AES-NI)	✓
Total storage capacity *	1 TB	Intel Trusted Execution Technology	✗
Storage media *	SSD	Intel VT-x with Extended Page Tables (EPT)	✓
Total SSDs capacity	1 TB	Intel® Secure Key	✓
Number of SSDs installed	1	Intel TSX-NI	✗
SSD capacity	1 TB	Intel Stable Image Platform Program (SIPP)	✗
SSD interface	PCI Express 3.0	Intel® OS Guard	✓
SSD form factor	M.2	Intel Software Guard Extensions (Intel SGX)	✓
Optical drive type *	✗	Intel 64	✓
Card reader integrated	✗	Execute Disable Bit	✓
Graphics		Idle States	✓
Discrete graphics card model *	NVIDIA Quadro RTX 3000	Thermal Monitoring Technologies	✓
Discrete graphics card memory	6 GB	Processor package size	42 x 28 mm
Discrete graphics memory type	GDDR6	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
On-board graphics card *	✓	CPU configuration (max)	1
Discrete graphics card *	✓	Embedded options available	✗
On-board graphics card family	Intel® UHD Graphics	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® UHD Graphics 630	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	350 MHz	Processor ARK ID	191045
On-board graphics card dynamic frequency (max)	1150 MHz	Battery	
Maximum on-board graphics card memory	64 GB	Battery technology	Lithium Polymer (LiPo)
On-board graphics card DirectX version	12.0	Number of battery cells	4
On-board graphics card OpenGL version	4.5	Battery capacity *	82 Wh
On-board graphics card ID	0x3E9B	Power	
Number of discrete graphics cards installed	1	AC adapter power	230 W
CUDA	✓	DC-in jack	✓
Audio		Weight & dimensions	
Number of built-in speakers	2	Width	357.7 mm
Speaker power	2 W	Depth	247.7 mm
Built-in microphone	✓	Height	17.9 mm
Camera		Weight *	1.9 kg
Front camera	✓	Packaging content	
Front camera signal format	720p	AC adapter included *	✓
Front camera HD type	HD	Other features	
Video capturing speed	30 fps	3D	✗
Network			
Wi-Fi	✓		
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		



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