



## MSI Workstation WS65 9TJ-014CA laptop Intel® Core™ i7 i7-9750H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA Quadro T2000 Wi-Fi 5 (802.11ac) Windows 10 Pro Black

**Brand :** MSI

**Product family:** Workstation

**Product code:** WS65  
9TJ-014CA

**Product name :** WS65  
9TJ-014CA

- 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), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA Quadro T2000 (4GB GDDR5), LAN, WLAN, Bluetooth, Webcam, Windows 10 Pro 64-bit  
MSI Workstation WS65 9TJ-014CA. 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: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, 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	Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Product colour *	Black	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Form factor *	Clamshell	Antenna type	2x2
Display		Ethernet LAN	✓
Display diagonal *	39.6 cm (15.6")	Ethernet LAN data rates	10,100,1000 Mbit/s
Display resolution *	1920 x 1080 pixels	Bluetooth	✓
Touchscreen *	✗	Bluetooth version	5.0
HD type	Full HD	Ports & interfaces	
LED backlight	✓	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Native aspect ratio	16:9	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Dual-screen	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Maximum refresh rate	60 Hz	Ethernet LAN (RJ-45) ports	1
NTSC coverage (typical)	72%	HDMI ports quantity *	1
sRGB coverage (typical)	100%	Mini DisplayPorts quantity	1
Processor		Headphone outputs	1
Processor manufacturer *	Intel	Microphone in	✓
Processor family *	Intel® Core™ i7	USB Type-C DisplayPort Alternate Mode	✓
Processor generation	9th gen Intel® Core™ i7	Keyboard	
Processor model *	i7-9750H	Pointing device	Touchpad
Processor cores	6	Numeric keypad *	✗
Processor threads	12	Keyboard backlight	✓
Processor boost frequency	4.5 GHz	Keyboard backlight colour	White
Processor frequency *	2.6 GHz	Windows keys	✓
System bus rate	8 GT/s	Software	
Processor cache	12 MB	Operating system architecture	64-bit
Processor cache type	Smart Cache	Operating system installed *	Windows 10 Pro
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		Processor special features	
Tjunction	100 °C	Intel® My WiFi Technology (Intel® MWT)	✓
Maximum number of PCI Express lanes	16	Intel® Identity Protection Technology (Intel® IPT)	✓
PCI Express slots version	3.0	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Turbo Boost Technology	2.0
Memory		Enhanced Intel SpeedStep Technology	✓
Internal memory *	16 GB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Internal memory type	DDR4-SDRAM	Intel Clear Video Technology	✓
Memory clock speed	2666 MHz	Intel® InTru™ 3D Technology	✓
Memory form factor	SO-DIMM	Intel® Quick Sync Video Technology	✓
Memory layout (slots x size)	2 x 8 GB	Intel Flex Memory Access	✓
Memory slots	2x SO-DIMM	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory *	64 GB	Intel Trusted Execution Technology	✗
Storage		Intel VT-x with Extended Page Tables (EPT)	✓
Total storage capacity *	512 GB	Intel® Secure Key	✓
Storage media *	SSD	Intel TSX-NI	✗
Total SSDs capacity	512 GB	Intel Stable Image Platform Program (SIPP)	✗
Number of SSDs installed	1	Intel® OS Guard	✓
SSD capacity	512 GB	Intel Software Guard Extensions (Intel SGX)	✓
SSD interface	PCI Express 3.0	Intel 64	✓
SSD form factor	M.2	Execute Disable Bit	✓
Optical drive type *	✗	Idle States	✓
Card reader integrated	✗	Thermal Monitoring Technologies	✓
Graphics		Processor package size	42 x 28 mm
Discrete graphics card model *	NVIDIA Quadro T2000	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Discrete graphics card memory	4 GB	CPU configuration (max)	1
Discrete graphics memory type	GDDR5	Embedded options available	✗
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® UHD Graphics	Processor ARK ID	191045
On-board graphics card model *	Intel® UHD Graphics 630	Battery	
On-board graphics card base frequency	350 MHz	Battery technology	Lithium Polymer (LiPo)
On-board graphics card dynamic frequency (max)	1150 MHz	Number of battery cells	4
Maximum on-board graphics card memory	64 GB	Battery capacity *	82 Wh
On-board graphics card DirectX version	12.0	Power	
On-board graphics card OpenGL version	4.5	AC adapter power	180 W
On-board graphics card ID	0x3E9B	DC-in jack	✓
Number of discrete graphics cards installed	1	Weight & dimensions	
CUDA	✓	Width	357.7 mm
Audio		Depth	247.7 mm
Number of built-in speakers	2	Height	17.9 mm
Speaker power	2 W	Weight *	1.9 kg
Built-in microphone	✓	Packaging content	
Camera		AC adapter included *	✓
Front camera	✓	Other features	
Front camera signal format	720p	3D	✗
Front camera HD type	HD		
Video capturing speed	30 fps		
Network			
Wi-Fi	✓		



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