

**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

Product type * Mobile workstation

Product colour * Black

Form factor * Clamshell

Display

Display diagonal * 39.6 cm (15.6")

Display resolution * 1920 x 1080 pixels

Touchscreen * **✗**

HD type Full HD

LED backlight **✓**

Native aspect ratio 16:9

Dual-screen **✗**

Maximum refresh rate 60 Hz

NTSC coverage (typical) 72%

sRGB coverage (typical) 100%

Processor

Processor manufacturer * Intel

Processor family * Intel® Core™ i7

Processor generation 9th gen Intel® Core™ i7

Processor model * i7-9750H

Processor cores 6

Processor threads 12

Processor boost frequency 4.5 GHz

Processor frequency * 2.6 GHz

System bus rate 8 GT/s

Processor cache 12 MB

Processor cache type Smart Cache

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

Network

Top Wi-Fi standard * Wi-Fi 5 (802.11ac)

Wi-Fi standards 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)

Antenna type 2x2

Ethernet LAN **✓**

Ethernet LAN data rates 10,100,1000 Mbit/s

Bluetooth **✓**

Bluetooth version 5.0

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 2

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 1

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 1

Ethernet LAN (RJ-45) ports 1

HDMI ports quantity * 1

Mini DisplayPorts quantity 1

Headphone outputs 1

Microphone in **✓**

USB Type-C DisplayPort Alternate Mode **✓**

Keyboard

Pointing device Touchpad

Numeric keypad * **✗**

Keyboard backlit **✓**

Keyboard backlit colour White

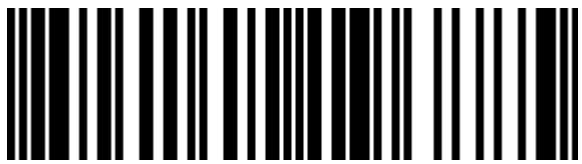
Windows keys **✓**

Software

Operating system architecture 64-bit

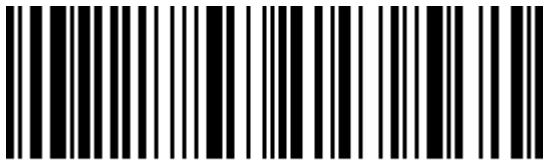
Operating system installed * Windows 10 Pro

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			
Internal memory *	16 GB	Enhanced Intel SpeedStep Technology	✓
Internal memory type	DDR4-SDRAM	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory clock speed	2666 MHz	Intel Clear Video Technology	✓
Memory form factor	SO-DIMM	Intel® InTru™ 3D Technology	✓
Memory layout (slots x size)	2 x 8 GB	Intel® Quick Sync Video Technology	✓
Memory slots	2x SO-DIMM	Intel Flex Memory Access	✓
Maximum internal memory *	64 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Storage			
Total storage capacity *	512 GB	Intel Trusted Execution Technology	✗
Storage media *	SSD	Intel VT-x with Extended Page Tables (EPT)	✓
Total SSDs capacity	512 GB	Intel® Secure Key	✓
Number of SSDs installed	1	Intel TSX-NI	✗
SSD capacity	512 GB	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			
Discrete graphics card model *	NVIDIA Quadro T2000	Idle States	✓
Discrete graphics card memory	4 GB	Thermal Monitoring Technologies	✓
Discrete graphics memory type	GDDR5	Processor package size	42 x 28 mm
On-board graphics card *	✓	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Discrete graphics card *	✓	CPU configuration (max)	1
On-board graphics card family	Intel® UHD Graphics	Embedded options available	✗
On-board graphics card model *	Intel® UHD Graphics 630	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card base frequency	350 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Processor ARK ID	191045
Maximum on-board graphics card memory	64 GB		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.5		
On-board graphics card ID	0x3E9B		
Number of discrete graphics cards installed	1		
CUDA	✓		
Audio			
Number of built-in speakers	2	AC adapter power	180 W
Speaker power	2 W	DC-in jack	✓
Built-in microphone	✓		
Camera			
Front camera	✓	Weight *	1.9 kg
Front camera signal format	720p		
Front camera HD type	HD		
Video capturing speed	30 fps		
Network			
Wi-Fi	✓		
Processor special features			
Intel® My WiFi Technology (Intel® MWT)	✓		
Intel® Identity Protection Technology (Intel® IPT)	✓		
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		
Enhanced Intel SpeedStep Technology	✓		
Intel® Clear Video HD Technology (Intel® CVT HD)	✓		
Intel Clear Video Technology	✓		
Intel® InTru™ 3D Technology	✓		
Intel® Quick Sync Video Technology	✓		
Intel Flex Memory Access	✓		
Intel® AES New Instructions (Intel® AES-NI)	✓		
Intel Trusted Execution Technology	✗		
Intel VT-x with Extended Page Tables (EPT)	✓		
Intel® Secure Key	✓		
Intel TSX-NI	✗		
Intel Stable Image Platform Program (SIPP)	✗		
Intel® OS Guard	✓		
Intel Software Guard Extensions (Intel SGX)	✓		
Intel 64	✓		
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Processor package size	42 x 28 mm		
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0		
CPU configuration (max)	1		
Embedded options available	✗		
Intel Virtualization Technology for Directed I/O (VT-d)	✓		
Intel Virtualization Technology (VT-x)	✓		
Processor ARK ID	191045		
Battery			
Battery technology	Lithium Polymer (LiPo)		
Number of battery cells	4		
Battery capacity *	82 Wh		
Power			
AC adapter power	180 W		
DC-in jack	✓		
Weight & dimensions			
Width	357.7 mm		
Depth	247.7 mm		
Height	17.9 mm		
Weight *	1.9 kg		
Packaging content			
AC adapter included *	✓		
Other features			
3D	✗		



824142196885

0824142196885



(01)10824142196882

Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.