



## SPECIFICATIONS

<b>Operating System</b>	Windows 10 Home - MSI recommends Windows 10 Pro for business
<b>CPU</b>	Up to Intel® Core™ i9-10900K Processor
<b>Chipset</b>	Intel® Z490
<b>System Memory</b>	2 x DDR4 up to 2933MHz U-DIMMs, up to 64GB
<b>Sound</b>	7.1 Channel HD Audio with Nahimic audio enhancer
<b>Storage</b>	2x M.2 SSD (1x PCIe/SATA Auto-switch) 2x 2.5" SSD / HDD
<b>Wireless LAN</b>	Intel® Dual Band Wireless-AC
<b>Bluetooth</b>	5.1
<b>I/O (Front)</b>	1x USB 3.2 Gen1 Type C 1x USB 2.0 Type A 1x USB 3.2 Gen1 Type A 1x Mic-in 1x Headphone-out
<b>I/O (Rear)</b>	1x Thunderbolt 3 (PD 15W) 1x USB 3.2 Gen 2 Type A 2x USB 3.2 Gen 1 Type A 2x USB 2.0 Type A 1x DP out (1.2) 1x HDMI out (1.4) 1x RJ45 (2.5G) 5x Audio jacks 1x Optical S/PDIF out *Tips: The display function is only available on non F series processors.
<b>LAN</b>	Realtek® 8125B
<b>Mini-DisplayPort</b>	
<b>AC Adapter / PSU</b>	Modular 650W 80 Plus Gold Certified PSU
<b>Cooling System</b>	Fan Cooler
<b>Volume</b>	10.36 L / 21.89pt
<b>Dimension (WxDxH)</b>	131.85 x 372.20 x 408.88mm (5.19 x 14.65 x 16.10 inch)
<b>WEIGHT (N.W./ G.W.)</b>	7.71 kg (17.00 lbs) / 9.73 kg (21.45 lbs)
<b>LOCK</b>	Kensington Lock
<b>Accessories</b>	1x Manual (optional) 1x Quick guide 1x Warranty card 1x Power cord
<b>Software</b>	Drivers & MSI Utilities Anti-Virus (60 days trial)
<b>Note</b>	*Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see <a href="https://www.microsoft.com/en-us/windows/windows-11-specifications">https://www.microsoft.com/en-us/windows/windows-11-specifications</a> ).
<b>SOFTWARE</b>	Drivers & MSI Utilities Anti-Virus (60 days trial)
<b>ACCESSORIES</b>	1x Quick guide 1x Power cord
<b>WEIGHT (N.W./ G.W.)</b>	3.4 kg (7.5 lbs) / 6.6 kg (14.55 lbs)

## FEATURES



### MSI Center

The MSI Center takes optimization to the next level with easily adjustable system modes and resources for a wide range of scenarios and needs.



### Easy to Upgrade

Make sure you can efficiently create with the latest hardware.



### Wi-Fi 6E

The latest Wi-Fi 6E delivers stunning speed while keeps the network smooth and stable even when sharing the network with numerous users.



### 2.5Gbps Ethernet LAN

Connect and rapidly transfer data over a network with the high-bandwidth and low-latency 2.5Gbps Ethernet LAN.



Thunderbolt™ 4

### Thunderbolt™ 4

Up to 40Gb transmission speed and 2X PCI-e bandwidth than previous generation, brings fast speed and versatility, offering a fast and simple level of connection for work.



### GeForce RTX™ Graphics Card

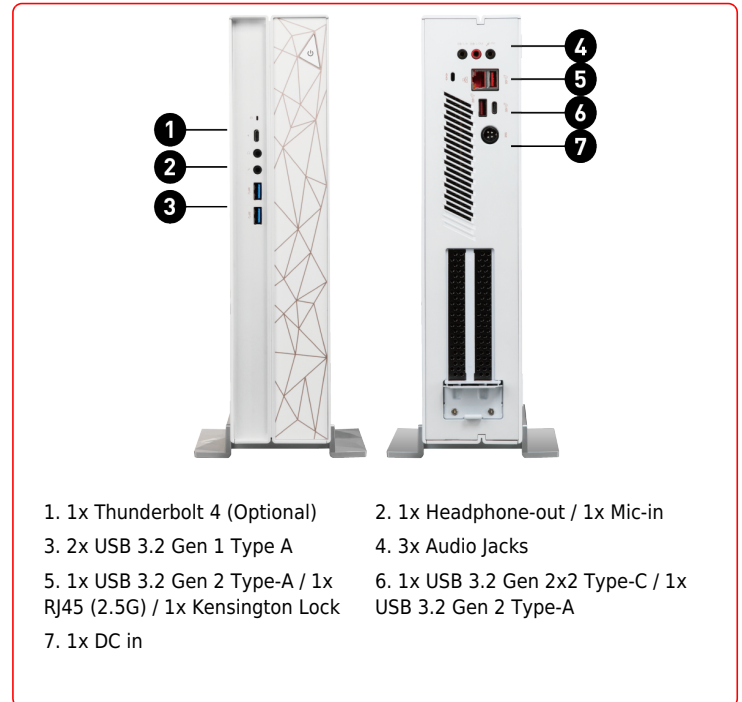
Built with MSI GeForce RTX™ Graphics Card, up to 40% more performance than previous generation.



### Intel 11th Gen Processors

Equipped with 11th Gen Intel® Core™ i7 processor. Up to 19% performance increase than previous generation.

## CONNECTIONS



- |  |  |
|--|--|
| 1. 1x Thunderbolt 4 (Optional)                                   | 2. 1x Headphone-out / 1x Mic-in                        |
| 3. 2x USB 3.2 Gen 1 Type A                                       | 4. 3x Audio Jacks                                      |
| 5. 1x USB 3.2 Gen 2 Type-A / 1x RJ45 (2.5G) / 1x Kensington Lock | 6. 1x USB 3.2 Gen 2x2 Type-C / 1x USB 3.2 Gen 2 Type-A |
| 7. 1x DC in  |  |

<b>DIMENSION (WXDXH)</b>	with stand: 353.73 x 97.56 x 251.35 mm (13.93 x 3.84 x 9.90 inch) w/o stand: 346.25 x 232.47 x 71.83 mm (13.63 x 9.15 x 2.83 inch)
<b>VOLUME</b>	4.72L / 8.31pt
<b>AC ADAPTER / PSU</b>	330W Adapter
<b>COOLING SYSTEM</b>	Fan Cooler
<b>BLUETOOTH</b>	5.2
<b>LAN</b>	Intel® I225-V
<b>WIRELESS LAN</b>	Intel® Wi-Fi 6E AX211
<b>I/O (REAR)</b>	1x USB 3.2 Gen 2 Type A 2x USB 2.0 Type A 1x RJ45 (2.5G) 3x Audio jacks
<b>I/O (FRONT)</b>	1x USB 3.2 Gen 2 Type C 2x USB 3.2 Gen 1 Type A 1x Mic-in 1x Headphone-out
<b>SOUND</b>	Realtek® ALC897 Audio Boost with Nahimic 3
<b>GRAPHICS</b>	GeForce RTX 3060 AERO ITX : 3x DP, 1x HDMI GeForce RTX 3050 AERO ITX : 3x DP, 1x HDMI GeForce GTX 1660 SUPER AERO ITX : 1x DP, 1x HDMI, 1x DL-DVI-D GeForce GTX 1650 AERO ITX : 1x DP, 1x HDMI, 1x DL-DVI-D
<b>STORAGE</b>	1x M.2 2280 slot (NVMe PCIe Gen3 x4) 1x 2.5" SATA Drive Bay
<b>SYSTEM MEMORY</b>	2 x DDR4 up to 3200MHz U-DIMMs, up to 64GB
<b>CHIPSET</b>	Intel® H610
<b>CPU</b>	Up to Intel® Core™ i7-12700 Processor
<b>OPERATING SYSTEM</b>	Windows 11 Home Windows 11 Pro (MSI recommends Windows 11 Pro for business.)