

# Specifications of XPS 13 7390

## Dimensions and weight

Table 2. Dimensions and weight

Description	Values
Height:	
Front	7.80 mm (0.31 in.)
Rear	11.63 mm (0.46 in.)
Width	301.76 mm (11.88 in.)
Depth	199.24 mm (7.84 in.)
Weight (maximum)	1.29 kg (2.84 lb) <b>NOTE:</b> The weight of your computer depends on the configuration ordered and the manufacturing variability.

## Processors

Table 3. Processors

Description	Values			
Processors	10 <sup>th</sup> Generation Intel Core i3-10110U	10 <sup>th</sup> Generation Intel Core i5-10210U	10 <sup>th</sup> Generation Intel Core i7-10510U	10 <sup>th</sup> Generation Intel Core i7-10710U
Wattage	15 W	15 W	15 W	15 W
Core count	2	4	4	6
Thread count	4	8	8	12
Speed	Up to 4.1 GHz	Up to 4.2 GHz	Up to 4.9 GHz	Up to 4.7 GHz
Cache	4 MB	6 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

## Chipset

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	10 <sup>th</sup> Generation Intel Core i3/i5/i7

**Table 4. Chipset(continued)**


Description	Values
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen3.0

## Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu

## Memory

**Table 5. Memory specifications**

Description	Values
Slots	Onboard memory  <b>NOTE: The memory modules are integrated on the system board. If the memory modules are malfunctioning and need to be replaced, a replacement of the system board is necessary.</b>
Type	Dual-channel LPDDR3
Speed	2133 MHz
Maximum memory	16 GB
Minimum memory	4 GB
Configurations supported	<ul style="list-style-type: none"> <li>· 4 GB LPDDR3 at 2133 MHz</li> <li>· 8 GB LPDDR3 at 2133 MHz</li> <li>· 16 GB LPDDR3 at 2133 MHz</li> </ul>

## Ports and connectors

**Table 6. External ports and connectors**

External:	
USB	<ul style="list-style-type: none"> <li>· Two USB Thunderbolt 3 (Type-C) ports with Power Delivery</li> <li>· One USB 3.1 Gen 2 (Type-C) port with Power Delivery/ DisplayPort</li> </ul>
Audio	One headset (headphone and microphone combo) port
Video	DisplayPort (DP) 1.2 support through a USB Type-C connector
Media card reader	One microSD-card slot
Docking port	Not applicable

**Table 6. External ports and connectors(continued)**

External:	
Power adapter port	DC-IN through a USB Type-C connector
Security	One security-cable slot (wedge-shaped)

**Table 7. Internal ports and connectors**

Internal:	
M.2	One M.2 2230/2280 slot for solid-state drive <i>i</i> <b>NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article <a href="#">SLN301626</a>.</b>

## Communications

### Wireless module

**Table 8. Wireless module specifications**

Description	Values
Model number	Rivet Killer AX1650W
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> <li>· WiFi 802.11a/b/g</li> <li>· Wi-Fi 4 (WiFi 802.11n)</li> <li>· Wi-Fi 5 (WiFi 802.11ac)</li> <li>· Wi-Fi 6 (WiFi 802.11ax)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>· 64-bit/128-bit WEP</li> <li>· AES-CCMP</li> <li>· TKIP</li> </ul>
Bluetooth	Bluetooth 5 (Windows 10 supports Bluetooth 5 with the latest Windows update)

## Audio

**Table 9. Audio specifications**

Description	Values
Controller	Realtek ALC3271-CG with Waves MaxxAudio Pro
Stereo conversion	Supported
Internal interface	High Definition Audio
External interface	7.1 channel output, universal audio jack supports microphone-in, stereo headphones, and headset combo

**Table 9. Audio specifications(continued)**

Description	Values
Speakers	Two
Internal speaker amplifier	Supported (audio codec built-in amplifier)
External volume controls	Keyboard shortcut controls
Speaker output:	
Average	2 W
Peak	2.5 W
Subwoofer output	Not supported
Microphone	Dual-array microphones

## Storage

Your computer supports one M.2 2230/2280 solid-state drive (either PCIe/NVMe or SATA).

**NOTE:** The M.2 2230 and M.2 2280 solid-state drives each has a unique thermal plate. The thermal plates cannot be interchanged.

**Table 10. Storage specifications**

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe Gen3 x2 NVMe, up to 32 Gbps	Up to 256 GB
M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 2 TB

## Media-card reader

**Table 11. Media-card reader specifications**

Description	Values
Type	One microSD-card slot
Cards supported	<ul style="list-style-type: none"> <li>Micro Secure Digital (mSD)</li> <li>Micro Secure Digital High Capacity (mSDHC)</li> <li>Micro Secure Digital Extended Capacity (mSDXC)</li> </ul>

## Keyboard

**Table 12. Keyboard specifications**

Description	Values
Type	Backlit keyboard
Layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>United States and Canada: 82 keys</li> </ul>

**Table 12. Keyboard specifications(continued)**

Description	Values
	<ul style="list-style-type: none"> <li>United Kingdom: 83 keys</li> <li>Japan: 86 keys</li> </ul>
Size	X=19.05 mm key pitch Y=18.05 mm key pitch
Shortcut keys	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key. <b>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</b> See <a href="#">Keyboard shortcuts</a>

## Camera

**Table 13. Camera specifications**

Description	Values
Number of cameras	One
Type	Fixed-focus lens
Location	Top-mount front camera
Sensor type	CMOS sensor technology
Resolution:	
Still image	0.9 megapixel (HD)
Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle	78 degrees

## Touchpad

**Table 14. Touchpad specifications**

Description	Values
Resolution:	
Horizontal	305
Vertical	305
Dimensions:	
Horizontal	105 mm (4.13 in.)
Vertical	65 mm (2.56 in.)

## Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/4027871) at [support.microsoft.com](https://support.microsoft.com).

## Power adapter

Table 15. Power adapter specifications

Description	Values
Type	SFF 45 W (USB Type-C)
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current (maximum)	1.30 A
Output current (continuous)	<ul style="list-style-type: none"><li>· 20 VDC/2.25A</li><li>· 15 VDC/3 A</li><li>· 9 VDC/3 A</li><li>· 5 VDC/3 A</li></ul>
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC
Temperature range:	
Operating	0°C to 40°C (32°F to 104°F)
Storage	-40°C to 70°C (-40°F to 158°F)

## Battery

Table 16. Battery specifications

Description	Values
Type	4-cell "smart" lithium-ion (52 WHr)
Voltage	7.60 VDC
Weight (maximum)	0.22 kg (0.49 lb)
Dimensions:	
Height	257.60 mm (10.14 in.)
Width	98.60 mm (3.88 in.)
Depth	4.30 mm (0.17 in.)
Temperature range:	
Operating	0°C to 35°C (32°F to 95°F)
Storage	-40°C to 65°C (-40°F to 149°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

**Table 16. Battery specifications(continued)**

Description	Values
Charging time (approximate)	4 hours (when the computer is off) <i>i</i> <b>NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="https://www.dell.com/">https://www.dell.com/</a></b>
Life span (approximate)	300 discharge/charge cycles
Coin-cell battery	ML1220
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

## Display

**Table 17. Display specifications**

Description	Values		
	Full High Definition (FHD)	Full High Definition (FHD)	Ultra High Definition (UHD)
Type	Full High Definition (FHD)	Full High Definition (FHD)	Ultra High Definition (UHD)
Panel technology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance (typical)	400 nits	400 nits	400 nits
Dimensions (active area):			
Height	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)
Width	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)
Diagonal	337.82 mm (13.30 in.)	337.82 mm (13.30 in.)	337.82 mm (13.30 in.)
Native resolution	1920 x 1080	1920 x 1080	3840 x 2160
Megapixels	2.07	2.07	8.29
Pixels per inch (PPI)	166	166	331
Contrast ratio (min)	1000:1	1000:1	1000:1
Response time (max)	30 ms	30 ms	30 ms
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle	89	89	89
Vertical view angle	89	89	89
Pixel pitch	0.15 mm	0.15 mm	0.08 mm
Power consumption (maximum)	2.9 W	2.9 W	5.41 W
Anti-glare vs Anti-reflective	Anti-reflective	Anti-glare	Anti-reflective
Touch options	Yes	No	Yes

# Fingerprint reader (optional)

Table 18. Fingerprint reader specifications

Description	Values
Sensor technology	Touch
Sensor resolution	500 dpi
Sensor area	5.5 mm x 4.5 mm
Sensor pixel size	108 x 88

## Video

Table 19. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory type
Not supported	Not supported	Not supported	Not supported

Table 20. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics	DisplayPort (DP) 1.2 support through a USB Type-C connector	Shared system memory	10 <sup>th</sup> Generation Intel Core i3/i5/i7

## Computer environment

**Airborne contaminant level:** G1 as defined by ISA-S71.04-1985

Table 21. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 ft)

\* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.