



Specifications

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Regulatory model: P20S | Type: P20S001

Computer model: XPS 9Q23

Dimensions

Height	20.00 mm (0.79 inch)
Width	317.30 mm (12.49 inches)
Depth	215.40 mm (8.48 inches)
Weight with 6-cell battery (starting at)	1.53 kg (3.37 lb) NOTE: The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.

System Information

Processor	- Intel Core i5 ULV (3rd generation) - Intel Core i7 ULV (3rd generation)
L1 cache	32 KB
L2 cache	256 KB
L3 Cache	Up to 4 MB
System chipset	Mobile Intel QS77 Express Chipset

Memory

Capacities	4 GB and 8 GB
Memory type	up to 1333 MHz, dual-channel DDR3 configuration (onboard)
Memory configurations supported	4 GB and 8 GB

Ports and Connectors

USB	- one USB 3.0 port - one USB 3.0 port with PowerShare and Windows debugging
Mini-DisplayPort	one Mini-DisplayPort
Audio	one headphone/microphone combo port
Mini-Card	- one half mini-card slot for WLAN/BT/WiDi combo card - one full mini-card slot for mSATA drive

Communications

Wireless	• Wi-fi 802.11 a/b/g/n • Bluetooth 4.0 • Intel Wireless Display (WiDi) 3.0
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Video

Video controller (UMA)	Intel HD Graphics 4000
Video memory (UMA)	512 MB dedicated video memory
Max external resolution	2560 x 1600
External display support	• Mini-DisplayPort • Wireless Display

Audio

Controller	Realtek ALC3260
Speaker	2 x 1 W
Internal microphone support	dual digital-array microphones in the camera assembly
Volume controls	program menus and keyboard media control keys

Storage

Interface	SATA 2.0 (3 Gb/s) or SATA 3.0 (6 Gb/s)
Drives supported	one mSATA solid-state drive through a mini-card

Display

Type	12.5-inch (16:9) gorilla glass FHD WLED with TrueLife
Maximum resolution	1920 x 1080 FHD (1080p)
Dimensions:	
Height	155.52 mm (6.12 inches)
Width	276.48 mm (10.88 inches)
Diagonal	317.22 mm (12.49 inches)
Refresh rate	60 Hz
Viewing angle	80° / 80° / 80° / 80°
Pixel pitch	0.144 mm x 0.144 mm
Controls	brightness control through keyboard shortcuts

Keyboard

Type	Chiclet keyboard with LED backlit
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Camera

Camera resolution	1280 x 1024 Pixels ~ 1.3M Pixels
Video resolution	1280 x 720 Pixels at 30 fps (maximum)
Diagonal viewing angle	70 degrees

Touchpad

X/Y position resolution (graphics table mode)	250 dpi
Size	
Height	61.60 mm (2.42 inches)
Width	99.60 mm (3.92 inches)

Battery

Type	6-cell "smart" lithium ion (45 WHr)
Height	5.16 mm (0.20 inch)
Width	113.16 mm (4.45 inches)
Length	287.00 mm (11.30 inches)
Weight	0.281 kg (0.62 lb)
Voltage	11.1 VDC
Operating time	battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions.
Life span (approximate)	300 discharge/charge cycles
Temperature range	
Operating	0 °C to 35 °C (32 °F to 95 °F)
Storage	−40 °C to 65 °C (−40 °F to 149 °F)
Coin-cell battery	CR-2032

Power Adapter

Type	45 W
Input voltage	100 VAC—240 VAC
Input current (maximum)	1.30 A
Input frequency	50 Hz—60 Hz
Output current	2.31 A
Output power	45 W
Rated output voltage	19.50 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)

Computer Environment

Temperature range:	
Operating	0 °C to 40 °C (32 °F to 104 °F)
Storage	–40 °C to 65 °C (–40 °F to 149 °F)
Relative humidity (maximum):	
Operating	10% to 90% (non-condensing)
Storage	10% to 95% (non-condensing)
Maximum vibration (using a random vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Storage	1.30 GRMS
Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms half-sine pulse for storage):	
Operating	110 G
Storage	160 G
Altitude (maximum)	
Operating	–15.2 m to 3048 m (–50 ft to 10,000 ft)
Storage	–15.2 m to 10,668 m (–50 ft to 35,000 ft)
Airborne contaminant level	G1 as defined by ISA-S71.04-1985