

# Latitude 7490

## Owner's Manual



# System specifications

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## Technical specifications

**NOTE:** Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to [Help and Support](#) in your Windows operating system and select the option to view information about your computer.

**Table 3. Specifications**

Type	Feature
Processor family	<p>Intel Core i5-8250U (Quad Core, 3.4GHz, 6M Cache, 15W )</p> <p>Intel Core i5-8350U (Quad Core, 3.6GHz, 6M Cache, 15W ) vPro</p> <p>Intel Core i7-8650U (Quad Core, 3.9 GHz, 8M Cache, 15W ) vPro</p> <p>Intel Core i3-7130U (Dual Core, 2.7 GHz, 3M cache, 15W )</p> <p>Intel Core i5-7300U (Dual Core, 3.5 GHz, 3M Cache, 15W) vPro</p>
System	<ul style="list-style-type: none"> <li>• Chipset: Intel Kaby Lake -U/R—Integrated in the processor</li> <li>• DRAM bus width: 64 - Bit</li> <li>• Flash EPROM: SPI 128 Mbits</li> <li>• PCIe bus: 100 MHz</li> <li>• External Bus Frequency: DMI 3.0-8GT/s</li> </ul>
Operating System	<ul style="list-style-type: none"> <li>• Microsoft Windows 10 Home</li> <li>• Microsoft Windows 10 Pro 64 bit</li> <li>• Ubuntu 16.04 LTS</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• DDR4 2400 SDRAM operates at 2133 with Intel 7th Gen</li> <li>• <b>DDR4 2400 SDRAM operates at 2400 with Intel 8th Gen</b></li> <li>• 2 DIMM slots supporting up to 32GB</li> </ul>
Video	<ul style="list-style-type: none"> <li>• Intel HD Graphics 620 (7th Gen Intel Core)</li> <li>• <b>Intel UHD Graphics 620 (8th Gen Intel Core)</b></li> </ul>
Audio	<ul style="list-style-type: none"> <li>• Types: Four-channel high-definition audio</li> <li>• Controller: Realtek ALC3246</li> <li>• Stereo conversion: 24-bit-analog-to-digital and digital-to-analog</li> <li>• Internal interface: High-definition audio</li> </ul>

	<ul style="list-style-type: none"> <li>External interface: Microphone-in, stereo headphones, and headset combo connector</li> <li>Speakers: Two</li> <li>Internal speaker amplifier: 2 W (RMS) per channel</li> <li>Volume controls: Hot keys</li> </ul>
Display	<ul style="list-style-type: none"> <li>14.0 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch</li> <li>14.0 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WWAN/WLAN, Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080) Anti-Glare, Mic only, WLAN capable, Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080) Anti-Glare, Super Low Power Panel (SLP), HD CAM/Mic, WLAN w/ASA, Narrow Border Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080) Anti-Glare, Super Low Power Panel (SLP), IR CAM/Mic, WLAN w/ASA, Narrow Border Mag Alloy back, Non Touch</li> <li>14.0 inch FHD (1920 x 1080), Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, On-cell Touch</li> <li>14.0 inch FHD (1920 x 1080), Anti-Glare, HD CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch</li> <li>14.0 inch FHD (1920 x 1080), Anti-Glare, IR CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch</li> </ul>
Storage options	<p>Primary Storage:</p> <ul style="list-style-type: none"> <li>128 GB M.2 2280 SATA 2280 SSD</li> <li>256 GB M.2 2280 SATA 2280 SSD</li> <li>512 GB M.2 2280 SATA 2280 SSD</li> <li>512 GB M.2 2280 SATA SED 2280 SSD</li> <li>128 GB M.2 2280 PCIe SSD</li> <li>256 GB M.2 2280 PCIe SSD</li> <li>512 GB M.2 2280 PCIe SSD</li> <li>1 TB M.2 2280 PCIe SSD</li> <li>256 GB M.2 2280 PCIe SED SSD</li> <li>512 GB M.2 2280 PCIe SED SSD</li> </ul>
Security	<p>TPM 2.0 FIPS 140-2 Certified, TCG Certified (February 2018)</p> <p>Optional Hardware Authentication Bundle 1: FIPS 201 Contacted Smart Card with Control Vault 2.0 Advanced Authentication with FIPS 140-2 Level 3 Certification</p> <p>Optional Hardware Authentication Bundle 2: Touch Fingerprint Reader, FIPS 201 Contacted Smart Card, Contactless Smart Card, NFC, Control Vault 2.0 Advanced Authentication with FIPS 140-2 Level 3 Certification</p>
Docking options	<ul style="list-style-type: none"> <li>Dell Business Dock WD15 (optional)</li> <li>Dell Business Thunderbolt Dock - TB16(optional for Thunderbolt 3 equipped systems only)</li> </ul>
Multimedia	<ul style="list-style-type: none"> <li>Integrated High-Quality Speakers</li> <li>Headset and mic combo jack</li> <li>Noise reducing array microphones</li> </ul>

	<ul style="list-style-type: none"> <li>Optional HD or IR Cam or No webcam</li> </ul>
Optical Drive Options	External Options Only
Battery options	<ul style="list-style-type: none"> <li>42 Whr Prismatic, ExpressCharge Capable</li> <li>60 Whr Polymer, ExpressCharge Capable</li> <li>60 Whr Long Life Cycle (polymer)</li> </ul> <p>42 WHr (3-cell):</p> <ul style="list-style-type: none"> <li>Length: 95.9 mm ( 3.78 inch )</li> <li>Width: 5.70 mm ( 0.22 inch )</li> <li>Height: 18.50 mm (0.71 inch )</li> <li>Weight: 185.00 g (0.41lb)</li> <li>Battery Capacity : 3.68 mAhr</li> </ul> <p><b>60 WHr (4-cell):</b></p> <ul style="list-style-type: none"> <li>Length: 95.9mm ( 3.78 inch)</li> <li>Width: 5.70mm ( 0.22 inch)</li> <li>Height: 18.50 mm (0.71 inch )</li> <li>Weight: 270.00 g (0.6lb)</li> <li>Battery Capacity: 7.89 mAhr</li> </ul> <p>60 WHr Long Life Cycle battery (polymer):</p> <ul style="list-style-type: none"> <li>Length: 95.9mm ( 3.78 inch)</li> <li>Width: 5.70mm ( 0.22 inch)</li> <li>Height: 18.50 mm (0.71 inch )</li> <li>Weight: 270.00 g (0.6lb)</li> <li>Battery Capacity: 7.89 mAhr</li> </ul>
Maximum Runtime Config	<ul style="list-style-type: none"> <li>7490 fixed hardware configuration that allows user to get significant hours of additional runtime</li> <li>It features a new Super-Low-Power (SLP) panel that enables the majority of the power savings. Backlight power draw is significantly lower than standard FHD panel</li> </ul> <p><b>NOTE:</b> Up to 20 hrs. battery run time (~18% improvement over standard FHD panel) with this configuration using FHD SLP panel with 60Whr battery</p>
Power adapter	<ul style="list-style-type: none"> <li>Type: E5 65 W or <b>E5 90 W</b></li> <li>Input voltage: 100 V AC to 240 V AC</li> <li>Input current-maximum:1.7 A</li> <li>Input frequency: 50 Hz to 60 Hz</li> <li>Output current: 3.34 A and 4.62 A</li> <li>Rated output voltage: 19.5 V DC</li> <li>Weight: 230 g (65 W) and 320 g (90 W)</li> <li>Dimensions: 22 x 66 x 106 mm (65 W) and 22 x 66 x 130 (90 W)</li> <li>Temperature range-Operating: 0°C to 40°C (32°F to 104°F)</li> <li>Temperature range-Non-Operating: -40°C to 70°C (-40°F to 158°F)</li> </ul>
Communications	Network adapter: Intel i219LM Gigabit Ethernet Controller,10/100/1000 Mb/s Ethernet (RJ-45)

	<p>Wireless and Modem:</p> <ul style="list-style-type: none"> <li>Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.1 Wireless Card</li> <li>Intel Dual-Band Wireless-AC 8265 Wi-Fi Wireless Card (No BT) (2x2)</li> <li>Intel Dual-Band Wireless-AC 8265 Wi-Fi + BT 4.2 Wireless Card (2x2)</li> <li>Intel Tri-Band Wireless-AC 18265 WiGig + Wi-Fi + BT4.2 Wireless Card</li> <li>Qualcomm Snapdragon™ X7 LTE-A (DW5811e)</li> <li>Qualcomm Snapdragon™ X7 HSPA+ (DW5811e)</li> <li>Qualcomm Snapdragon™ X7 LTE-A (DW5816e)</li> </ul>
Ports, Slots, and Chassis	<ul style="list-style-type: none"> <li>HDMI 1.4(1)</li> <li>Universal Jack</li> <li>MultiMedia card reader (SD 4.0)</li> <li>uSIM (external)</li> <li>3x USB 3.1 Gen1 (one with PowerShare)</li> <li>DisplayPort over USB Type-C(optional Thunderbolt 3(1))</li> <li>RJ45</li> <li>Optional Smartcard</li> <li>Noble lock wedge slot</li> <li>DC-in</li> </ul>
Camera	<ul style="list-style-type: none"> <li>Type: HD fixed focus</li> <li>Sensor type: CMOS sensor technology</li> <li>Imaging rate: Up to 30 frames per second</li> <li>Video Resolution: 1280 x 720 pixels (0.92 MP)</li> </ul>
Touchpad	<p>Active area</p> <ul style="list-style-type: none"> <li>X-axis—99.50 mm</li> <li>Y-axis—53.0 mm</li> <li>X/Y position resolution— X: 1048cpi; Y:984cpi</li> <li>Multi-touch—Configurable single finger and multi-finger gestures</li> </ul>
Internal Keyboards	<ul style="list-style-type: none"> <li>14.1 inches Single Pointing, non backlit</li> <li>14.1 inches Dual Pointing, backlit</li> </ul>
Physical specifications	<ul style="list-style-type: none"> <li>Front height to Back ( Non Touch) : 0.69 to 0.70 inches; 7.47 to 17.9</li> <li>Width: 13.03 inch; 331.0 mm</li> <li>Depth: 8.70 inch; 220.9 mm</li> <li>Starting weight: 1.4 kg; 3.11 lbs</li> </ul>
Environmental specifications	<p>Temperature Specifications</p> <ul style="list-style-type: none"> <li>Operating: 0°C to 35°C (32°F to 95°F)</li> <li>Storage : -40°C to 65°C (-40°F to 149°F)</li> </ul> <p>Relative humidity—maximum Specifications</p> <ul style="list-style-type: none"> <li>Operating: 10% to 90% (non-condensing)</li> <li>Storage: 5% to 95% (non-condensing)</li> </ul> <p>Altitude—maximum Specifications</p> <ul style="list-style-type: none"> <li>Operating: 0 to 3048 m (0 to 10,000 ft)</li> <li>Non-operating: 5% to 95% (non-condensing)</li> </ul>

## Display specifications in detail

**Table 4. 14.0 inches (16:9) AG HD (1366 x 768) WLED 200 nits ( typ ) eDP 1.2 ,HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch**

Feature	Specification
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum )</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	300:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 40 degrees
Vertical View Angle (min)	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	2.8 W

**Table 5. 14.0 inches (16:9) AG HD (1366 x 768) WLED 200 nits ( typ ) eDP 1.2 ,HHD CAM/Mic, WLAN/WWAN, Mag Alloy back, Non Touch**

Feature	Specification
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum )</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	300:1
Response Time (max)	25 msec rise/fall

Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 40 degrees
Vertical View Angle (min)	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	2.8 W

**Table 6. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch**

Feature	Specification
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>• Height: 173.95 mm(maximum )</li> <li>• Width: 309.4 mm(maximum )</li> <li>• Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	3.8 W

**Table 7. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, HD CAM/Mic, WWAN/WLAN, Mag Alloy back, Non Touch**

Feature	Specification
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>• Height: 173.95 mm (maximum) without metal tabs mm</li> <li>• Width: 309.4 mm(maximum )</li> <li>• Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	1000:1

Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	3.8 W

**Table 8. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, Mic only, WLAN capable, Mag Alloy back, Non Touch**

<b>Feature</b>	<b>Specification</b>
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum )</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	3.8 W

**Table 9. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, Super Low Power Panel (SLP), HD CAM/Mic, WLAN w/ASA, Narrow Border Mag Alloy back, Non Touch**

<b>Feature</b>	<b>Specification</b>
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum) without metal tabs</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157



Contrast Ratio (min)	1000:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	1.99 W

**Table 10. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, Super Low Power Panel (SLP), IR CAM/Mic, WLAN w/ASA, Narrow Border Mag Alloy back, Non Touch**

<b>Feature</b>	<b>Specification</b>
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>• Height: 173.95 mm(maximum) without metal tabs</li> <li>• Width: 309.4 mm(maximum )</li> <li>• Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	1000:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	1.99 W

**Table 11. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, On-cell Touch**

<b>Feature</b>	<b>Specification</b>
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>• Height: 173.95 mm(maximum )</li> <li>• Width: 309.4 mm(maximum )</li> <li>• Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07

Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	4.1 W

**Table 12. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, HD CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch**

Feature	Specification
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum )</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	4.1 W

**Table 13. 14.0 inches (16:9) AG FHD (1920 x 1080) 300 nits, eDP 1.3 w/PSR, IPS, IR CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch**

Feature	Specification
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions (Active Area)	<ul style="list-style-type: none"> <li>· Height: 173.95 mm(maximum )</li> <li>· Width: 309.4 mm(maximum )</li> <li>· Diagonal: 14.0 inch</li> </ul>
Native Resolution	1920 x 1080

Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec black to white
Refresh Rate	60 Hz
Horizontal View Angle (min)	+/- 80 degrees
Vertical View Angle (min)	+/- 80 degrees
Pixel Pitch	0.161 x 0.161 mm
Power Consumption (maximum)	4.1 W

## Hot key combinations

**Table 14. Hot key combinations**

<b>Function key combination</b>	<b>Latitude 7490</b>
Fn+ESC	Fn Toggle
Fn+ F1	Speaker Mute
Fn+ F2	Volume Down
Fn+ F3	Volume Up
Fn+ F4	Mic Mute
Fn+ F5	Num Lock
Fn+ F6	Scroll Lock
Fn+ F8	Display Toggle (Win + P)
Fn+ F9	Search
Fn+ F10	Increase keyboard back light brightness
Fn+ F11	Decrease display brightness
Fn+ F12	Increase display brightness
Fn + Prt Scr	WLAN on/off
Fn + Insert	Sleep
Fn + Left Cursor	Home
Fn + Right Cursor	End