

Dell Latitude 7290 7390 7490

Technical Guidebook



Notes, cautions, and warnings

 | **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 | **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 | **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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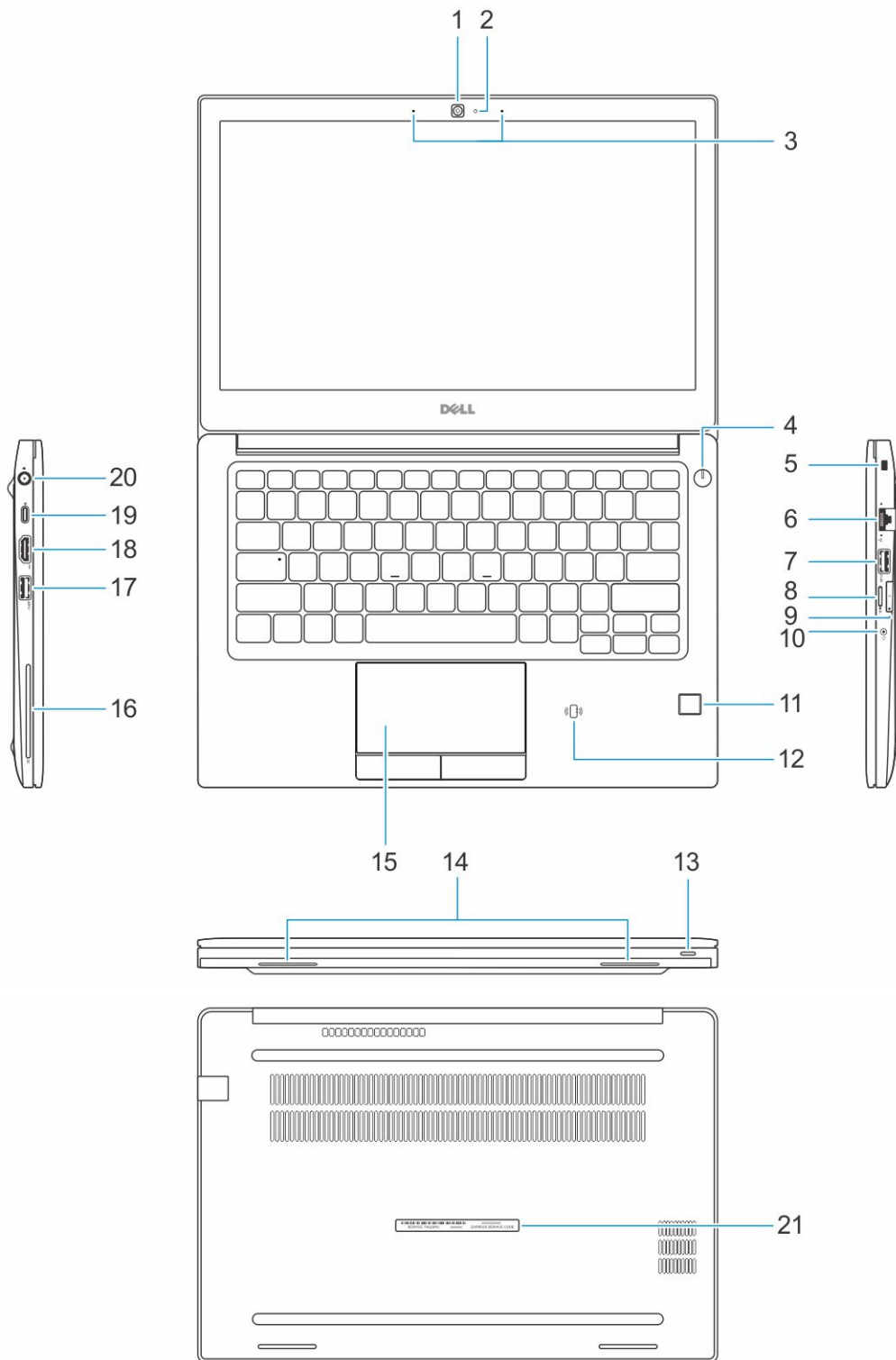
Product View and Technical Specifications for Latitude 7290

This chapter consists of the product view features along with technical specifications. The product view feature calls out the different ports, connectors and components available in the system.

Features of Latitude 7290

The features topics call out the different views of the system along with the ports and components available in each view for .

Front and back view



- | | | | |
|---|---------------------|---|--------------------------------|
| 1 | Camera (optional) | 2 | Camera status light (optional) |
| 3 | Microphones | 4 | Power button |
| 5 | Security cable slot | 6 | Network port |

| | | | |
|----|---|----|-----------------------------|
| 7 | USB 3.1 Gen 1 port with PowerShare | 8 | microSD card slot |
| 9 | micro-SIM card slot (optional) | 10 | Headset port |
| 11 | Fingerprint reader (optional) | 12 | NFC sensor (optional) |
| 13 | Status light | 14 | Speakers |
| 15 | Touchpad | 16 | Smartcard reader (optional) |
| 17 | USB 3.1 Gen 1 port | 18 | HDMI port |
| 19 | DisplayPort over USB Type-C(optional Thunderbolt 3) | 20 | Power connector port |
| 21 | Service Tag label | | |

Technical specifications

This topic lists out the technical specifications for your computer.

Table 1. Specifications

| Type | Feature |
|------------------|--|
| Model Number | Latitude 7290 |
| Processor family | 8th Generation Intel Core up to i7 processors 7th Generation Intel Core up to i5 processors |
| Operating System | <ul style="list-style-type: none"> Microsoft Windows 10 Home Microsoft Windows 10 Pro 64 bit Ubuntu |
| Memory | <ul style="list-style-type: none"> DDR4 2400 SDRAM operates at 2133 with Intel 7th Gen DDR4 2400 SDRAM operates at 2400 with Intel 8th Gen One DIMM slot up to 16 GB |
| Chipset | Intel Kaby Lake -U/R—Integrated in the processor |
| Graphics | <ul style="list-style-type: none"> Intel HD Graphics 620 (7th Gen Intel Core) Intel UHD Graphics 620 (8th Gen Intel Core) |
| Display | <ul style="list-style-type: none"> 12.5 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch 12.5 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, Non Touch 12.5 inch HD (1366 x 768) Anti-Glare, Mic only, WLAN capable, Mag Alloy back, Non Touch |
| Storage options | Primary Storage: <ul style="list-style-type: none"> 128 GB M.2 2280 SATA SSD 256 GB M.2 2280 SATA SSD 512 GB M.2 2280 SATA SSD 512 GB M.2 2280 SATA SED SSD 128 GB M.2 2230 PCIe SSD 256 GB M.2 2280 PCIe SSD 512 GB M.2 2280 PCIe SSD 1 TB M.2 2280 PCIe SSD |

| | |
|---|---|
| | <ul style="list-style-type: none"> • 256 GB M.2 2280 PCIe SED SSD • 512 GB M.2 2280 PCIe SED SSD |
| 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"> • Dell Dock WD15 (optional) • Dell Thunderbolt Dock TB16 (optional) |
| Multimedia | <ul style="list-style-type: none"> • Integrated High-Quality Speakers • Headset and mic combo jack • Noise reducing array microphones • Optional HD or No webcam |
| Optical Drive Options | External Options Only |
| Battery options | <ul style="list-style-type: none"> • 42 Whr Prismatic, ExpressCharge Capable • 60 Whr Polymer, ExpressCharge Capable • 60 Whr Long Life Cycle Polymer |
| Power adapter | <ul style="list-style-type: none"> • E5 65 W • E5 65 W rug. Type for India only • E5 90 W • E4 65 W HF (BFR/PVC Free) |
| Connectivity | <ul style="list-style-type: none"> • Qualcomm QCA61x4A 2x2 AC + BT 4.1 (non vPro) • Qualcomm QCA6174A XR 2x2 AC + BT4.1 (non vPro) • Intel Dual-Band Wireless-AC 8265 2x2 + BT 4.2 (vPro) • Qualcomm Snapdragon™ X7 LTE-A (DW5811e) for AT&T, Verizon & Sprint, US. (DAO) • Qualcomm Snapdragon™ X7 LTE-A (DW5811e) (EMEA/APJ/ROW) • Qualcomm Snapdragon™ X7 HSPA+ (DW5811e) (China/Indonesia/India) • Qualcomm Snapdragon™ X7 LTE-A (DW5816e) (Japan, ANZ, India, South Korea, Taiwan) |
| Ports, Slots, and Chassis | <ul style="list-style-type: none"> • HDMI 1.4(1) • Universal Jack • MultiMedia card reader (SD 4.0) • uSIM (external) • 2 x USB 3.1 Gen1 (one with PowerShare) • Display Port over USB Type-C(optional Thunderbolt 3 (1) • RJ45 • Optional Smartcard reader • Noble lock-Full size • DC-in |
| Regulatory and Environmental Compliance | <ul style="list-style-type: none"> • Energy Star 6.1 (restrict Ubuntu)-tied to specific bases |

| | |
|--------------------|---|
| | <ul style="list-style-type: none"> • EPEAT registered • BFR/PVC Free Configuration Option |
| Palmrest | <ul style="list-style-type: none"> • No Smart card or Fingerprint Reader with Display port over Type C (Available with Single Pointing backlit or non-backlit keyboards) • Smart card only with Display port over Type C (Available with Single Pointing backlit or non-backlit keyboards) • No Smart card or Fingerprint Reader with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) • Smart card only with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) • Full Security with Display port over Type C (Available with Single Pointing backlit or non-backlit keyboards) • Full Security with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) |
| Internal Keyboards | <ul style="list-style-type: none"> • 12.5 inches Single Pointing, non backlit • 12.5 inches Single Pointing, backlit |

Dimensions and Weight

This topic lists out the dimensions of the system in detail.

Table 2. Dimensions and weight for Latitude 7290

| Dimensions | Inches | Millimeter |
|----------------------------------|-----------------------|-------------------------------|
| Width | 12.00 | 304.80 |
| Depth | 8.19 | 207.95 |
| Height Front to Back, Non-Touch) | 0.65 (front and back) | 16.53 (front) 16.54 (back) |
| Starting weight | Pounds | Kilograms |
| | 2.63 | 1.19 |

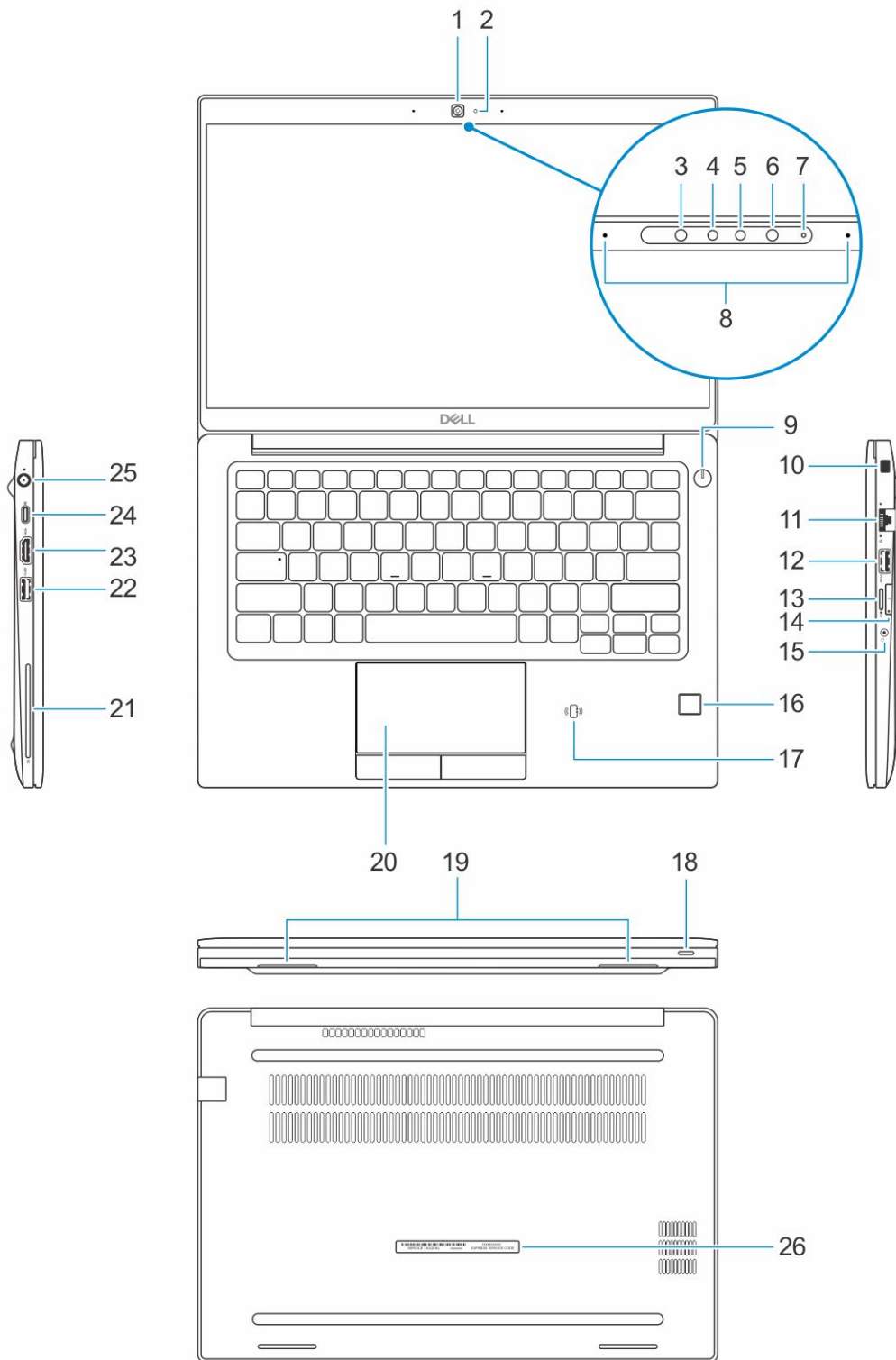
Product View and Technical Specifications for Latitude 7390

This chapter consists of the product view features along with technical specifications. The product view feature calls out the different ports, connectors and components available in the computer.

Features of Latitude 7390

The views display only the standard components shipped with the computer along with some optional components.

Front and back view



- | | | | |
|---|----------------------------------|---|----------------------------------|
| 1 | Camera | 2 | Camera status light |
| 3 | Infrared (IR) emitter (optional) | 4 | Infrared (IR) camera (optional) |
| 5 | Camera (optional) | 6 | Infrared (IR) emitter (optional) |

| | | | |
|----|--------------------------------|----|--|
| 7 | Camera status light (optional) | 8 | Microphones |
| 9 | Power button | 10 | Noble Security Lock Slot |
| 11 | Network port | 12 | USB 3.1 Gen 1 port with PowerShare |
| 13 | microSD card slot | 14 | micro-SIM card slot (optional) |
| 15 | Headset port | 16 | Fingerprint reader (optional) |
| 17 | NFC sensor (optional) | 18 | Battery charge status light |
| 19 | Speakers | 20 | Touchpad |
| 21 | Smartcard reader (optional) | 22 | USB 3.1 Gen 1 port |
| 23 | HDMI port | 24 | DisplayPort over USB Type-C (optional Thunderbolt 3) |
| 25 | Power connector port | 26 | Service Tag label |

Technical Specifications

Table 3. Specifications

| Type | Feature |
|------------------|---|
| Model Number | Latitude 7390 |
| Processor family | <ul style="list-style-type: none"> 7th Generation Intel Core up to i5 processors 8th Generation Intel Core up to i7 processors |
| Operating System | <ul style="list-style-type: none"> Microsoft Windows 10 Pro 64 bit Microsoft Windows 10 Home 64 bit Ubuntu |
| Memory | <ul style="list-style-type: none"> DDR4 2400 SDRAM operates at 2133 with Intel 7th Gen DDR4 2400 SDRAM operates at 2400 with Intel 8th Gen One DIMM slot up to 16 GB |
| Chipset | Intel KabyLake U & R (integrated with processor) |
| Graphics | <ul style="list-style-type: none"> Intel HD Graphics 620 (7th Gen Intel Core) Intel UHD Graphics 620 (8th Gen Intel Core) |
| Display | <ul style="list-style-type: none"> 13.3 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch 13.3 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, Non Touch 13.3 inch FHD (1920 x 1080) Anti-Glare, IR CAM/Mic, WLAN capable, Narrow Border Mag Alloy back, Non Touch 13.3 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy, On-cell Touch 13.3 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN capable, Narrow Border Carbon Fiber back, On-cell Touch 13.3 inch FHD (1920 x 1080) Anti-Glare, IR CAM/Mic, WLAN capable, Narrow Border Carbon Fiber back, On-cell Touch |
| Storage options | Primary Storage: <ul style="list-style-type: none"> 128 GB M.2 2280 SATA SSD 256 GB M.2 2280 SATA SSD |

| | |
|---|---|
| | <ul style="list-style-type: none"> • 512 GB M.2 2280 SATA SSD • 512 GB M.2 2280 SATA SED SSD • 128 GB M.2 2230 PCIe SSD • 256 GB M.2 2280 PCIe SSD • 512 GB M.2 2280 PCIe SSD • 1 TB M.2 2280 PCIe SSD • 256 GB M.2 2280 PCIe SED SSD • 512 GB M.2 2280 PCIe SED SSD |
| Multimedia | <ul style="list-style-type: none"> • High Quality Speakers • Headset/mic combo jack • Noise reducing array microphones • Optional HD or IR Cam or No webcam |
| Battery options | <ul style="list-style-type: none"> • 42 Whr Prismatic, ExpressCharge Capable • 60 Whr Polymer, ExpressCharge Capable • 60 Whr Long Life Cycle Polymer |
| Power adapter | <ul style="list-style-type: none"> • E5 65 W • E5 65 W rug. Type for India only • E5 90 W • E4 65 W HF (BFR/PVC Free) |
| Connectivity | <p>10/100/1000 Gigabit Ethernet</p> <p>Wireless LAN Options:</p> <ul style="list-style-type: none"> • No WLAN option • Qualcomm QCA61x4A 2x2 AC + Bluetooth 4.1 (non vPro) • Qualcomm QCA6174A XR 2x2 AC + Bluetooth 4.1 (non vPro) • Intel Dual-Band Wireless-AC 8265 2x2 + Bluetooth 4.2 (non vPro) <p>Optional Mobile Broadband Options:</p> <ul style="list-style-type: none"> • Qualcomm Snapdragon X7 LTE-A (DW5811e) for AT&T, Verizon & Sprint. (US) • Qualcomm Snapdragon X7 LTE-A (DW5811e) (EMEA/APJ/ROW) • Qualcomm Snapdragon X7 HSPA + (DW5811e) (China/Indonesia/ India) • Qualcomm Snapdragon X7 LTE-A (DW5816e) (Japan/ANZ/India/South Korea/Taiwan) |
| Ports, Slots and Chassis | <ul style="list-style-type: none"> • HDMI 1.4(1) • Universal Jack • MultiMedia card reader (SD 4.0) • microSim card slot (external) • 2 x USB 3.1 Gen 1 (one with PowerShare) • Display Port over USB Type-C(optional Thunderbolt 3 (1)) • RJ 45 • Optional Smartcard reader • Noble lock-Full size • DC-in |
| Regulatory and Environmental Compliance | <ul style="list-style-type: none"> • ENERGY STAR 6.1 (includes Windows and Ubuntu OS) |

| | |
|----------------|--|
| | <ul style="list-style-type: none"> EPEAT Registered. For specific country participation and rating, please visit www.epeat.net BFR/PVC Free Configuration Option |
| Input device | <p>Keyboard:</p> <ul style="list-style-type: none"> Single Pointing, non backlit. Tied to specific bases Single Pointing, backlit. Tied to specific bases <p>Palmrests:</p> <ul style="list-style-type: none"> No Smartcard or Fingerprint Reader with Displayport over Type C (Available with Single Pointing backlit or non-backlit keyboards) Smartcard only with Displayport over Type C (Available with Single Pointing backlit or non-backlit keyboards) No Smartcard or Fingerprint Reader with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) Smartcard only with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) Full Security with Displayport over Type C (Available with Single Pointing backlit or non-backlit keyboards) Full Security with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) |
| Docking option | <ul style="list-style-type: none"> Dell Dock WD15 (optional) Dell Thunderbolt Dock TB16 (optional) |
| 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> |

Dimensions and Weight

This topic lists out the dimensions of the computer in detail.

Table 4. Dimensions and weight for Latitude 7390

| Dimensions | Inches | Millimeter |
|-----------------------------------|--------|------------|
| Width | 12.00 | 304.80 |
| Depth | 8.19 | 207.95 |
| Height (Front to Back, Non-Touch) | 0.64 | 16.33 |
| | 0.66 | 16.86 |
| Starting weight | Pounds | Kilograms |
| | 2.59 | 1.17 |

NOTE: System weight and shipping weight is based on a typical configuration and may vary based on the actual configuration.

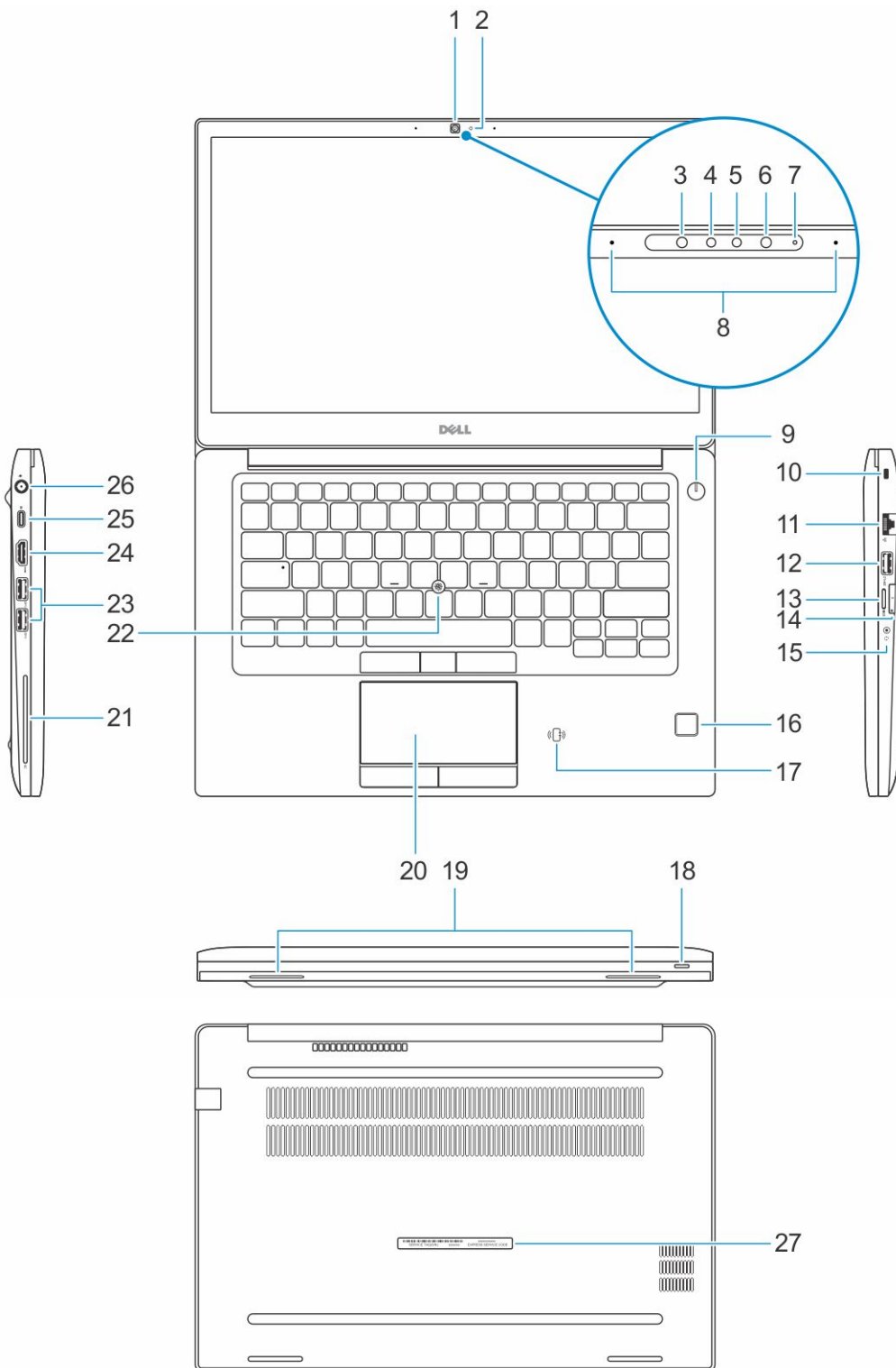
Product View and Technical Specifications for Latitude 7490

This chapter consists of the product view features along with technical specifications. The product view feature calls out the different ports, connectors and components available in the system.

Features of Latitude 7490

The features topics call out the different views of the computer along with the ports and components available in each view.

Front and side view



- 1 Camera (optional)
- 2 Camera status light (optional)
- 3 Infrared emitter (optional)
- 4 Infrared (IR) camera (optional)

| | | | |
|----|--|----|------------------------------------|
| 5 | Camera | 6 | Infrared emitter (optional) |
| 7 | Camera-status light | 8 | Microphones |
| 9 | Power button | 10 | Security cable slot |
| 11 | Network port | 12 | USB 3.1 Gen 1 port with PowerShare |
| 13 | microSD card slot | 14 | micro-SIM card slot (optional) |
| 15 | Headset port | 16 | Fingerprint reader (optional) |
| 17 | NFC sensor (optional) | 18 | Status light |
| 19 | Speakers | 20 | Touchpad |
| 21 | Smartcard reader (optional) | 22 | Pointstick (optional) |
| 23 | USB 3.1 Gen 1 port | 24 | HDMI port |
| 25 | DisplayPort over USB Type-C(optional Thunderbolt™ 3) | 26 | Power connector port |
| 27 | Service Tag label | | |

Technical specifications

This topic lists out the technical specifications for your computer.

Table 5. Specifications

| Type | Feature |
|------------------|---|
| Model Number | Latitude 7490 |
| Processor family | 8th Generation Intel Core up to i7 processors 7th Generation Intel Core up to i5 processors |
| Operating System | <ul style="list-style-type: none"> Microsoft Windows 10 Home Microsoft Windows 10 Pro 64 bit Ubuntu |
| Memory | <ul style="list-style-type: none"> DDR4 2400 SDRAM operates at 2133 with Intel 7th Gen DDR4 2400 SDRAM operates at 2400 with Intel 8th Gen 2 DIMM slots supporting up to 32GB |
| Chipset | Intel Kaby Lake -U/R—Integrated in the processor |
| Graphics | <ul style="list-style-type: none"> Intel HD Graphics 620 (7th Gen Intel Core) Intel UHD Graphics 620 (8th Gen Intel Core) |
| Display | <ul style="list-style-type: none"> 14.0 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch 14.0 inch HD (1366 x 768) Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, Non Touch 14.0 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WLAN capable, Mag Alloy back, Non Touch 14.0 inch FHD (1920 x 1080) Anti-Glare, HD CAM/Mic, WWAN/WLAN, Mag Alloy back, Non Touch 14.0 inch FHD (1920 x 1080) Anti-Glare, Mic only, WLAN capable, Mag Alloy back, Non Touch 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 |

| | |
|-----------------------|---|
| | <ul style="list-style-type: none"> 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 14.0 inch FHD (1920 x 1080), Anti-Glare, HD CAM/Mic, WLAN/WWAN, Mag Alloy back, On-cell Touch 14.0 inch FHD (1920 x 1080), Anti-Glare, HD CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch 14.0 inch FHD (1920 x 1080), Anti-Glare, IR CAM/Mic, WLAN w/ASA, Narrow Border Carbon Fiber back, On-cell Touch |
| Storage options | <p>Primary Storage:</p> <ul style="list-style-type: none"> 128 GB M.2 2280 SATA SSD 256 GB M.2 2280 SATA SSD 512 GB M.2 2280 SATA SSD 512 GB M.2 2280 SATA SED SSD 128 GB M.2 2230 PCIe SSD 256 GB M.2 2280 PCIe SSD 512 GB M.2 2280 PCIe SSD 1 TB M.2 2280 PCIe SSD 256 GB M.2 2280 PCIe SED SSD 512 GB M.2 2280 PCIe SED SSD |
| 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"> Dell Dock WD15 (optional) Dell Thunderbolt Dock TB16 (optional) |
| Multimedia | <ul style="list-style-type: none"> Integrated High-Quality Speakers Headset and mic combo jack Noise reducing array microphones Optional HD or IR Cam or No webcam |
| Optical Drive Options | External Options Only |
| Battery options | <ul style="list-style-type: none"> 42 Whr Prismatic, ExpressCharge Capable 60 Whr Polymer, ExpressCharge Capable 60 Whr Long Life Cycle Polymer |
| Power adapter | <ul style="list-style-type: none"> E5 65 W E5 65 W rug. Type for India only E5 90 W E4 65 W HF (BFR/PVC Free) Dell Power Companion PW7015L |
| Connectivity | <ul style="list-style-type: none"> Qualcomm QCA61x4A 2x2 AC + BT 4.1 (non vPro) Qualcomm QCA6174A XR 2x2 AC + BT4.1 (non vPro) Intel Dual-Band Wireless-AC 8265 2x2 + BT 4.2 (vPro) |

| | |
|---|--|
| | <ul style="list-style-type: none"> Qualcomm Snapdragon X7 LTE-A (DW5811e) for AT&T, Verizon and Sprint, US. (DAO) Qualcomm Snapdragon X7 LTE-A (DW5811e) (EMEA/APJ/ROW) Qualcomm Snapdragon X7 HSPA+ (DW5811e) (China/Indonesia/India) Qualcomm Snapdragon X7 LTE-A (DW5816e) (Japan, ANZ, India, South Korea, Taiwan) |
| Ports, Slots, and Chassis | <ul style="list-style-type: none"> HDMI 1.4(1) Universal Jack MultiMedia card reader (SD 4.0) uSIM (external) 3x USB 3.1 Gen1 (one with PowerShare) DisplayPort over USB Type-C(optional Thunderbolt 3(1)) RJ45 Optional Smartcard Noble lock wedge slot DC-in |
| Regulatory and Environmental Compliance | <ul style="list-style-type: none"> Energy Star 6.1 (restrict Ubuntu)-tied to specific bases EPEAT registered BFR/PVC Free Configuration Option |
| Palmrest | <ul style="list-style-type: none"> No Smart card or Fingerprint Reader with Display port over Type C (Available with Single Pointing non-backlit keyboard) No Smart card or Fingerprint Reader with Display port over Type C (Available with Dual Pointing backlit keyboard) Smart card only with Display port over Type C (Available with Single Pointing backlit or non-backlit keyboards) Smart card only with Display port over Type C (Available with Dual Pointing backlit keyboard) No Smart card or Fingerprint Reader with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) No Smart card or Fingerprint Reader with Thunderbolt (Available with Dual Pointing backlit keyboard) Smart card only with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) Smart card only with Thunderbolt (Available with Dual Pointing backlit keyboard) Full Security with Display port over Type C (Available with Single Pointing backlit or non-backlit keyboards) Full Security with Display port over Type C (Available with Dual Pointing backlit keyboard) Full Security with Thunderbolt (Available with Single Pointing backlit or non-backlit keyboards) Full Security with Thunderbolt (Available with Dual Pointing backlit keyboard) |
| Internal Keyboards | <ul style="list-style-type: none"> 14.1 inches Single Pointing, non backlit 14.1 inches Dual Pointing, backlit |

Dimensions and Weight

This topic lists out the dimensions of the system in detail.

Table 6. Dimensions and weight for Latitude 7490

| Dimensions | Inches | Millimeter |
|-----------------------------------|---------------|-------------------|
| Width | 13.03 | 331.0 |
| Depth | 8.70 | 220.9 |
| Height (Front to Back, Non-Touch) | 0.69 | 17.47 |
| | 0.70 | 17.9 |
| Starting weight | Pounds | Kilograms |
| | 3.11 | 1.4 |

Marketing System Configurations

This chapter lists the operating system configurations supported in a system. It also lists the processor, memory, storage options available for this system. It will help the team in identifying whether a specific configuration is supported by the system.

Supported operating systems

Table 7. Operating systems

| | |
|------------------|---|
| Windows | <ul style="list-style-type: none"> Microsoft Windows 10 Pro 64 bit Microsoft Windows 10 Home 64 bit |
| Other | <ul style="list-style-type: none"> Ubuntu |
| OS media support | <ul style="list-style-type: none"> Dell.com/support to download eligible Windows OS USB media available as upsell |

Intel processor technology

Latitude 7290, 7390 and 7490 series are built with Intel 8th Generation Core Processor and Intel 7th Generation Core Processor technologies.

- 8th generation Quad Core Processor
- 7th generation Dual Core Processor
- Intel 14nm Manufacturing Process Technology

Table 8. Processor configurations - 8th generation Quad Core Processor

| Processor support list | UMA graphics |
|---|------------------------|
| Intel Core i5-8250U (Quad Core, 1.6GHz, 6M Cache, 15W) | Intel UHD Graphics 620 |
| Intel Core i5-8350U (Quad Core, 1.7GHz, 6M Cache, 15W) vPro | Intel UHD Graphics 620 |
| Intel Core i7-8650U (Quad Core, 1.9GHz, 8M Cache, 15W) vPro | Intel UHD Graphics 620 |

Table 9. Processor configurations - 7th generation Dual Core Processor

| Processor support list | UMA graphics |
|---|-----------------------|
| Intel Core i3-7130U (Dual Core, 2.7 GHz, 3M cache, 15W) | Intel HD Graphics 620 |
| Intel Core i5-7300U (Quad Core, 2.6GHz, 3M Cache, 15W) vPro | Intel HD Graphics 620 |

Memory

Your computer supports a maximum of 16 or 32 GB of memory; however, 32-bit operating systems, can only use a maximum of 4GB of address space. Moreover, certain components within the computer require address space in the 4GB range. Any address space reserved

for these components cannot be used by computer memory; therefore, the amount of memory available to a 32-bit operating system is less than 4GB.

- Greater than 4GB memory requires a 64-bit operating system
- Only memory type supported: DDR4 SDRAM
- Not backward compatible with DDR3 memory modules

Table 10. Memory specifications for Latitude 7290 and 7390

| Memory | Latitude 7290 and 7390 series |
|------------------------------|-------------------------------|
| SO-DIMM Slot | One |
| Minimum memory configuration | 4 GB |
| Maximum memory configuration | 16 GB |
| DIMM configuration | |
| 4G 2400MHz DDR4 (1x4GB) | Yes |
| 8G 2400MHz DDR4 (1x8GB) | Yes |
| 16G 2400MHz DDR4 (1x16GB) | Yes |

Table 11. Memory specifications for Latitude 7490

| Memory | Latitude 7490 series |
|------------------------------|----------------------|
| SO-DIMM Slot | Two |
| Minimum memory configuration | 4 GB |
| Maximum memory configuration | 32 (16 x2) GB |
| DIMM configuration | |
| 4G 2400MHz DDR4 (1x4G) | Yes |
| 8G 2400MHz DDR4 (2 X 4G) | Yes |
| 8G 2400MHz DDR4 (1 X 8G) | Yes |
| 16G 2400MHz DDR4 (2x8G) | Yes |
| 32G 2400MHz DDR4 (2x16G) | Yes |

Primary storage options

Mobility Solid State Drives offer highly reliable, durable & lightweight storage. SSDs provide improved performance & operate quieter & cooler than standard hard drives.

Self-Encrypting drives provide hardware encrypted data protection which can be activated within a few seconds centrally & can be much safer and faster than software based encryption. Note: Encrypted drives require the system be configured in AHCI mode.

Table 12. Storage options

| Primary storage |
|-------------------------|
| SSD-M.2-2280-128GB-SATA |
| SSD-M.2-2280-256GB-SATA |

| |
|-----------------------------|
| SSD-M.2-2280-512GB-SATA |
| SSD-M.2-2280-512GB-SATA-SED |
| SSD M.2 2230-128GB-PCIe |
| SSD-M.2-2280-256GB-PCIe |
| SSD-M.2-2280-512GB-PCIe |
| SSD-M.2-2280-1TB-PCIe |
| SSD-M.2-2280-256GB-PCIe-SED |
| SSD-M.2-2280-512GB-PCIe-SED |

Connectivity options

Table 13. Connectivity options

| | Connectivity Option | Latitude 7290, 7390, 7490 | Regions | Carriers |
|-------------------------|---|---------------------------|---|---|
| WLAN, WLAN + WWAN | Qualcomm Snapdragon X7 LTE-A (DW5811e) | Yes | DAO | US Verison, AT&T, Sprint (DW5811) and EMEA non- carrier tied Cus kit supported on all WWAN modules |
| | Qualcomm Snapdragon X7 LTE-A (DW5811e) | Yes | EMEA/APJ/ROW | US Verison, AT&T, Sprint (DW5811) and EMEA non- carrier tied Cus kit supported on all WWAN modules |
| | Qualcomm Snapdragon X7 HSPA+ (DW5811e) | Yes | China/Indonesia/India | US Verison, AT&T, Sprint (DW5811) and EMEA non- carrier tied Cus kit supported on all WWAN modules |
| | Qualcomm Snapdragon X7 LTE-A (DW5816e) | Yes | Japan, ANZ, India, South Korea, Taiwan | US Verison, AT&T, Sprint (DW5811) and EMEA non- carrier tied Cus kit supported on all WWAN modules |
| WLAN +WWAN | Qualcomm QCA61x4A 2x2 AC + BT 4.1 | Yes | All | N/A |
| | Qualcomm QCA6174A XR 2x2 AC + BT4.1 | Yes | All | N/A |
| | Intel Dual-Band Wireless-AC 8265 2x2 + BT 4.2 (vPro) | Yes | All | N/A |

NOTE:

- SIM connector is 100% populated on PWA
- SIM feature support is tied only to (1) back cover with WWAN Antenna, and (2) Palmrest Chassis with SIM Tray Slot. Both of these decisions are at POS, not APOS.
- SIM Slot is not 100%, but tied to hinge up with WWAN antenna.
- WWAN antenna decision must be made at POS.
- No WLAN CUST kits

Engineering specifications

This chapter lists out the specification of each and every component in a comprehensive format. Specific features/models/configurations/options discussed in the document may or may not be available.

Storage options

This topic lists out the detailed specifications of the supported SSD.

Table 14. 128 GB M.2 2280 SATA Class 20 SSD

| | |
|---|-------------------------|
| Capacity (GB) | 128 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | Up to 6 Gb/s (SATA 3.0) |
| MTFF | 1.4M hours |
| Logical Blocks | 250,069,680 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 15. 256 GB M.2 2280 SATA Class 20 SSD

| | |
|---|-------------------------|
| Capacity (GB) | 256 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | Up to 6 Gb/s (SATA 3.0) |
| MTFF | 1.4M hours |
| Logical Blocks | 500,118,192 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |

| | |
|---|---------------|
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 16. 512 GB M.2 2280 SATA Class 20 SSD

| | |
|------------------------------------|-------------------------|
| Capacity (GB) | 512 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | Up to 6 Gb/s (SATA 3.0) |
| MTFF | 1.4M hours |
| Logical Blocks | 1,000,215,216 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |

Environmental Operating Conditions (Non-Condensing):

| | |
|-------------------------|-------------|
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |

Environmental Non-Operating Conditions (Non-Condensing):

| | |
|-------------------------|---------------|
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 17. 512 GB M.2 2280 SATA Class 20 SSD SED

| | |
|------------------------------------|-------------------------|
| Capacity (GB) | 512 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | Up to 6 Gb/s (SATA 3.0) |
| MTFF | 1.4M hours |
| Logical Blocks | 1,000,215,216 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |

Environmental Operating Conditions (Non-Condensing):

| | |
|-------------------------|-------------|
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |

Environmental Non-Operating Conditions (Non-Condensing):

| | |
|-------------------------|---------------|
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 18. 128 GB M.2 2230 PCIe Class 35 SSD

| | |
|---|---------------------------------|
| Capacity (GB) | 128 |
| Dimensions mm (W x D x H) | 22 x 30 x 2.38 |
| Interface type and Maximum speed | PCIe Gen3 8Gb/s (up to 2 lanes) |
| MTFF | 1.4M hours |
| Logical Blocks | 250,069,680 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 19. 256 GB M.2 2280 PCIe Class 40 SSD

| | |
|---|----------------------------------|
| Capacity (GB) | 256 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | PCIe Gen3 8 Gb/s (up to 4 lanes) |
| MTFF | 1.4M hours |
| Logical Blocks | 500,118,192 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 20. 512 GB M.2 2280 PCIe Class 40 SSD

| | |
|----------------------------------|----------------------------------|
| Capacity (GB) | 512 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | PCIe Gen3 8 Gb/s (up to 4 lanes) |
| MTFF | 1.4M hours |

| | |
|---|------------------------|
| Logical Blocks | 1,000,215,216 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 21. 1 TB M.2 2280 PCIe Class 40 SSD

| | |
|---|----------------------------------|
| Capacity (GB) | 1024 |
| Dimensions mm (W x D x H) | 22 x 80 x 3.73 |
| Interface type and Maximum speed | PCIe Gen3 8 Gb/s (up to 4 lanes) |
| MTFF | 1.4M hours |
| Logical Blocks | 2,000,409,264 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 22. 256 GB M.2 2280 PCIe Class 40 SSD SED

| | |
|---|---------------------------------|
| Capacity (GB) | 256 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | PCIe Gen3 8Gb/s (up to 4 lanes) |
| MTFF | 1.4M hours |
| Logical Blocks | 500,118,192 |
| Power Source: | |
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C to 70°C |

| | |
|---|---------------|
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Table 23. 512 GB M.2 2280 PCIe Class 40 SSD SED

| | |
|----------------------------------|---------------------------------|
| Capacity (GB) | 512 |
| Dimensions mm (W x D x H) | 22 x 80 x 2.38 |
| Interface type and Maximum speed | PCIe Gen3 8Gb/s (up to 4 lanes) |
| MTFF | 1.4M hours |
| Logical Blocks | 1,000,215,216 |

Power Source:

| | |
|------------------------------------|------------------------|
| Power Consumption (reference only) | Idle 1.7W, Active 4.5W |
|------------------------------------|------------------------|

Environmental Operating Conditions (Non-Condensing):

| | |
|-------------------------|-------------|
| Temperature Range | 0°C to 70°C |
| Relative Humidity Range | 10% to 90% |
| Op Shock (@0.5ms) | 1,500G |

Environmental Non-Operating Conditions (Non-Condensing):

| | |
|-------------------------|---------------|
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

Ports and Connectors

Table 24. Ports and Connectors

| Feature | Specifications |
|-----------------|--|
| USB | Latitude 7290 and 7390 <ul style="list-style-type: none"> • Type-C USB 3.1 Gen 1 Display port (optional Thunderbolt) • Two USB 3.1 Gen1 ports— one PowerShare capable Latitude 7490 <ul style="list-style-type: none"> • Type-C USB 3.1 Gen 1 Display port (optional Thunderbolt) • Three USB 3.1 Gen1 ports— one PowerShare capable |
| Video | HDMI 1.4 |
| Network adapter | RJ-45 network adapter |
| Modem | N/A |

| | |
|-----------------|--|
| Expansion ports | <ul style="list-style-type: none"> · uSD 4.0 Memory card reader · 1 3042, 1 3030, 1 2280 M.2 slots |
| Smartcard | Optional |
| Docking | Security cable slot |
| uSIM | External tray tied to WWAN hinge up |

Table 25. Ports and connectors - Audio

| Feature | Specifications |
|---------|---|
| Audio | <ul style="list-style-type: none"> · Four-channel high definition audio · Realtek ALC3246 Controller · Stereo conversion: 24-bit (analog-to-digital and digital-to-analog) · Internal Interface - high-definition audio codec · External Interface - microphone-in and stereo headphones/speakers universal connector · Speakers: Power: 2X2 Wrms · Internal speaker amplifier: 2 watt per channel · Internal microphone: digital microphone (dual microphone with camera) · No volume control buttons, only support hot-key keyboard button |

Camera specifications

Easy Remote Collaboration:

- Video conference online with an optional built-in camera
- Windows Hello feature can be enabled with IR Camera embedded

Table 26. Camera specifications for Latitude 7290

Camera features

Camera Type

IR Camera

Sensor Type

Resolution: Motion Video

Resolution: Still Image

Imaging Rate

12 inches HD

HD fixed focus

N/A

CMOS sensor technology

Up to 1280x720 (0.92MP)

Up to 1280 x 720 (0.92MP)

Up to 30 frames per second

Table 27. Camera specifications for Latitude 7390

| Camera features | 13 inches HD/FHD | 13 inches FHD | 13 inches FHD touch |
|--------------------------|----------------------------|----------------------------|----------------------------|
| Camera Type | HD fixed focus | HD fixed focus | HD fixed focus |
| IR Camera | N/A | Yes | N/A |
| Sensor Type | CMOS sensor technology | CMOS sensor technology | CMOS sensor technology |
| Resolution: Motion Video | Up to 1280x720 (0.92MP) | Up to 1280x720 (0.92MP) | Up to 1280x720 (0.92MP) |
| Resolution: Still Image | Up to 1280 x 720 (0.92MP) | Up to 1280 x 720 (0.92MP) | Up to 1280 x 720 (0.92MP) |
| Imaging Rate | Up to 30 frames per second | Up to 30 frames per second | Up to 30 frames per second |

Table 28. Camera specifications for Latitude 7490

| Camera features | 14 inches HD/FHD | 14 inches Super Low Power FHD | 14 inches FHD touch |
|--------------------------|----------------------------|-------------------------------|----------------------------|
| Camera Type | HD fixed focus | HD fixed focus | HD fixed focus |
| IR Camera | N/A | Yes | Yes |
| Sensor Type | CMOS sensor technology | CMOS sensor technology | CMOS sensor technology |
| Resolution: Motion Video | Up to 1280x720 (0.92MP) | Up to 1280x720 (0.92MP) | Up to 1280x720 (0.92MP) |
| Resolution: Still Image | Up to 1280 x 720 (0.92MP) | Up to 1280 x 720 (0.92MP) | Up to 1280 x 720 (0.92MP) |
| Imaging Rate | Up to 30 frames per second | Up to 30 frames per second | Up to 30 frames per second |

Wireless communications

Table 29. Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.1 LE M.2 Wireless Card

| Attribute | Specification |
|-------------------------------|---|
| Host interface | M.2 2230 form factor (WiFi- PCIe, Bluetooth – USB) |
| Network standard | 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac |
| Wi-Fi Alliance Certifications | 802.11a, 802.11b, 802.11g, WPA, WPA2, WMM, 11ac, Wifi-Direct, WMM-Power Save, Wifi Protected Setup, Voice-Personal |
| Operating Frequency Bands | 2.4 GHz (802.11b/g/n) and 5 GHz (802.11a/n/ac) |
| Dual Stream N | Dual Stream Diversity and 2x2 MIMO operations in 2.4GHz and 5GHz Dual Stream N + MIMO + ASA (Active Steering Antennas) |

| Attribute | Specification |
|-------------------------------------|--|
| Data Rate | 802.11ac – Up to 867 Mbps; 802.11n - Up to 450 Mbps; 802.11a/g - Up to 54 Mbps 802.11b - Up to 11 Mbps |
| Receive Sensitivity | 802.11ac: -59 dBm @ 400 Mbps; - 57dBm @ 866.7 Mbps 802.11n/a: -67 dBm @ 300 Mbps ; -70 dBm @ 144.4 Mbps 802.11g/a: -75 dBm @ 54 Mbps 802.11b: -85 dBm @ 11 Mbps |
| Security | Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK |
| Authentication | EAP-TLS, EAP-TTLS (MSCHAPv2), PEAPv0(EAP-MS-CHAPv2) |
| EAP Methods | |
| Client Utility | Native Wi-Fi and Bluetooth Microsoft UI support |
| Software Support | Microsoft WHQL certified for Windows 7/8.1 and Windows 10; Linux |
| Radio On/Off | Hardware and software on/off disables transmit and receive to comply with aviation in-flight restrictions |
| Roaming | Seamless roaming between 802.11a, 802.11b, 802.11b/g, 802.11n and 802.11ac access points |
| Wake On Wireless | Supported |
| Miracast (WiFi Display) | Native Miracast support by Windows 8.1 and 10 |
| Wireless PAN Standard | Dual-mode Bluetooth 4.1, BLE |
| Bluetooth Data rates | Up to 3 Mbps |
| Bluetooth Operating Frequency Bands | 2.4 GHz |
| Transmission | FHSS (Frequency Hopping Spread Spectrum) |
| Bluetooth Data Encryption | 128-bit encryption |
| Temperature | Operating temperature -10°C to 65°C Storage temperature of -45°C to 70°C |
| Humidity | Up to 90% |

Table 30. Qualcomm QCA6174A Extended Range 802.11ac MU-MIMO Dual Band (2x2) Wi-Fi + Bluetooth 4.1 LE M.2 Wireless Card

| Attribute | Specification |
|-------------------------------|---|
| Host interface | M.2 2230 form factor (WiFi– PCIe, Bluetooth – USB) |
| Network standard | 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac |
| Wi-Fi Alliance Certifications | 802.11a, 802.11b, 802.11g, WPA, WPA2, WMM, 11ac, Wifi-Direct, WMM-Power Save, Wifi Protected Setup, Voice-Personal |
| Operating Frequency Bands | 2.4 GHz (802.11b/g/n) and 5 GHz (802.11a/n/ac) |
| Dual Stream N | Dual diversity antenna switching for systems designed with main and auxiliary antennas 2x2 MIMO operation when in 802.11n mode with 2x2 or greater Access Point |

| Attribute | Specification |
|-------------------------------------|---|
| | Dual Stream N + MIMO + ASA (Active Steering Antennas) |
| Data Rate | 802.11ac – Up to 867 Mbps; 802.11n - Up to 450 Mbps; 802.11a/g - Up to 54 Mbps 802.11b - Up to 11 Mbps |
| Receive Sensitivity | 802.11ac: -67 dBm @ 400 Mbps; -63dBm @ 866.7 Mbps 802.11n: -67 dBm @ 300 Mbps ; -70 dBm @ 144.4 Mbps (2G) 802.11na: -70 dBm @ 300 Mbps ; -74 dBm @ 144.4 Mbps (5G) 802.11g: -75 dBm @ 54 Mbps ; 802.11a: -76 dBm @ 54 Mbps ; 802.11b: -85 dBm @ 11 Mbps |
| Security | Open, Shared, WPA, WPA2, 802.1x(EAP-TLS, EAP-TTLS, PEAP, LEAP, EAP-FAST, EAP-SIM) |
| Authentication | |
| EAP Methods | EAP-FAST, EAP-TLS, EAP-TTLS (PAP, CHAP, MS-CHAP, MS-CHAP2), PEAP(GTC, EAP-TLS, MS-CHAPv2) |
| Client Utility | Native Wi-Fi and Bluetooth Microsoft UI support |
| Software Support | Microsoft WHQL certified for Windows 7/8.1 and Windows 10; Linux |
| Radio On/Off | Hardware and software on/off disables transmit and receive to comply with aviation in-flight restrictions |
| Roaming | Seamless roaming between 802.11a, 802.11b, 802.11b/g, 802.11n and 802.11ac access points |
| Wake On Wireless | Supported when using Magic Packet over the Air |
| Miracast (WiFi Display) | Supports Miracast (Wifi Display) on Windows 8.1/10 |
| Wireless PAN Standard | Dual-mode Bluetooth 4.1, BLE |
| Bluetooth Data rates | Up to 3 Mbps |
| Bluetooth Operating Frequency Bands | 2.4 GHz |
| Transmission | FHSS (Frequency Hopping Spread Spectrum) |
| Bluetooth Data Encryption | 128-bit encryption |
| Temperature | Operating temperature -10°C to 65°C Storage temperature of -45°C to 70°C |
| Humidity | Up to 90% |

Table 31. Intel Dual Band Wireless-AC 8265 (Windstorm Peak) 802.11AC 2x2 Wi-Fi + Bluetooth 4.2 LE M.2 Wireless Card

| Attribute | Specification |
|-------------------------------|--|
| Host interface | M.2 2230 form factor (WiFi– PCIe, Bluetooth – USB) |
| Network standard | IEEE 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac MU-MIMO |
| Wi-Fi Alliance Certifications | 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, WPA, WPA2, WMM and Wifi-Direct |
| Operating Frequency Bands | 2.4 GHz (802.11b/g/n) and 5 GHz (802.11a/n/ac) |

| Attribute | Specification |
|-------------------------------------|---|
| Dual Stream N | Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11a/b/g solutions. Dual Stream N + MIMO + ASA (Active Steering Antennas) |
| Data Rate | Up to 867 Mbps |
| Receive Sensitivity | 802.11ac: -65.5dBm(Typ) @ 400 Mbps; -61.5dBm(Typ) @ 866.7 Mbps 802.11n/a: -71.25dBm(Typ) @ 300 Mbps ; -74dBm(Typ) @ 144.4 Mbps 802.11g/a: -75 dBm @ 54 Mbps 802.11b: -89dBm(Typ) @ 11 Mbps |
| Authentication | WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA |
| Authentication Protocols | PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2 |
| Encryption | 64-bit and 128-bit WEP, 128-bit AES-CCMP |
| Product Safety | UL, C-UL, CB (IEC60950-1) |
| Client Utility | Intel PRO/Set Wireless Software v19.0 and later. |
| Software Support | Microsoft Windows 10; Linux |
| Radio On/Off | Supported |
| Roaming | Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n/ac) |
| Wake On Wireless | Supported when vPro /AMT is activated, or Windows 8.1/10 without Intel AMT |
| Miracast (WiFi Display) | Native Miracast support by Windows 8.1 and 10 |
| Wireless PAN Standard | Dual-mode Bluetooth 4.2, BLE |
| Bluetooth Data rates | Up to 3 Mbps |
| Bluetooth Operating Frequency Bands | 2.4 GHz |
| Transmission | FHSS (Frequency Hopping Spread Spectrum) |
| Bluetooth Data Encryption | 128-bit encryption |
| Temperature | Operating temperature 0°C to 50°C (Full performance at shield temperatures up to 80°C) Storage temperature of -40°C to 70°C |
| Humidity | Up to 90% RH non-condensing (at temperatures of 25°C to 35°C) |

Table 32. Active Steering Antennas

| Attribute | Specification |
|-----------|--|
| Feature | In 5GHz WiFi operations Active Steering Antennas (ASA) enables multiple unique antenna patterns for each antenna and selects the |

| Attribute | Specification |
|---------------------------------|--|
| | most optimal to improve RF signal strength resulting higher data rates and an enhanced wireless experience. |
| Operating Frequency Band | 5GHz (5180MHz - 5825MHz) |
| Number of Antennas | 2 (2x2 MIMO) |
| Supported Wireless Technologies | WiFi 802.11 a/n/ac |
| Enhanced performance | Up to 40% improved data transmission when compared to non-ASA enabled mode. Varies depending on network, environment, signal conditions, traffic loading and type. |
| Operating Systems | Windows 10 64-bit and Linux |

WLAN — Miracast Support Matrix

Table 33. WLAN-MiracastSupport matrix

| WLAN Card | Operating system | Miracast support |
|--|-------------------|------------------|
| <ul style="list-style-type: none"> Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.1 Wireless Card Intel Dual-Band Wireless-AC 8265 Wi-Fi Wireless Card (No BT) (2x2) Intel Dual-Band Wireless-AC 8265 Wi-Fi + BT 4.2 Wireless Card (2x2) Qualcomm QCA6174A Extended Range 802.11ac MU-MIMO Dual Band (2x2) Wi-Fi + Bluetooth 4.1 LE M.2 Wireless Card | Windows 10 64-bit | Native support |
| <ul style="list-style-type: none"> Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.1 Wireless Card Intel Dual-Band Wireless-AC 8265 Wi-Fi Wireless Card (No BT) (2x2) Intel Dual-Band Wireless-AC 8265 Wi-Fi + BT 4.2 Wireless Card (2x2) Qualcomm QCA6174A Extended Range 802.11ac MU-MIMO Dual Band (2x2) Wi-Fi + Bluetooth 4.1 LE M.2 Wireless Card | Ubuntu 6.0 | No support |

Wireless communications Mobile Broadband

Table 34. Qualcomm Snapdragon X7 LTE-A (DW5811e)for AT&T, Verizon and Sprint, US (DAO)

| Carrier | Verizon | AT&T | Sprint |
|------------------------------|-----------------------------|------------------------------------|-----------------------------|
| Network | LTE CAT6 | LTE CAT6 | LTE CAT6 |
| Speed (Downlink) | < 300 Mbps | < 300 Mbps | < 300 Mbps |
| Speed (Uplink) | < 50 Mbps | < 50 Mbps | < 50 Mbps |
| Fallback Network | NA | HSPA+ | NA |
| Fallback Speed (Downlink) | NA | HSPA+ 42 Mbps | NA |
| Frequency Bands | Band 4, 13 LTE | Band 13 LTE Band 2, 4, 5, 17 and 7 | Band 25, 26, 41 LTE |
| LTE/WWAN Antenna | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) |

| Carrier | Verizon | AT&T | Sprint |
|--------------------------|-------------------------|-------------------------|-------------------------|
| Operating System Support | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits |
| | Windows 7, 32/64 bits | Windows 7, 32/64 bits | Windows 7, 32/64 bits |
| | Windows 10, 32/64 bits | Windows 10, 32/64 bits | Windows 10, 32/64 bits |
| Host Interface | Supported both | Supported both | Supported both |
| | USB 3.1 Gen 1/ USB 2.0 | USB 3.1 Gen 1/ USB 2.0 | USB 3.1 Gen 1/ USB 2.0 |

Table 35. DW5811e Snapdragon X7 HSPA (Indonesia)

| Carrier | Generic | Indonesia |
|---------------------------|--|--|
| Network | | HSPA+ |
| Host interface | USB 3.0/ USB 2.0 | USB 3.0/ USB 2.0 |
| Speed (Downlink) | < 42 Mbps | < 42 Mbps |
| Speed (Uplink) | < 5.76 Mbps | < 5.76 Mbps |
| Fallback Network | N\A | N\A |
| Fallback Speed (Downlink) | N\A | N\A |
| Frequency Bands | Band 1, 2, 3, 4, 5, 8, HSPA+ | Band 1, 2, 3, 4, 5, 8, HSPA+ |
| SIM | Yes | Yes |
| LTE/WWAN Antenna | Main (Tx/Rx) + Aux (Rx/GNSS) | Main (Tx/Rx) + Aux (Rx/GNSS) |
| Operating System Support | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits |
| | Windows 7, 32/64 bits | Windows 7, 32/64 bits |
| | Windows 10, 32/64 bits | Windows 10, 32/64 bits |
| GNSS | Supports both autonomous GNSS (GPS + GLONASS) and assisted GNSS (A-GNSS) | Supports both autonomous GNSS (GPS + GLONASS) and assisted GNSS (A-GNSS) |

Table 36. Qualcomm Snapdragon X7 LTE-A (DW5816E) (Japan/ANZ/China/India/South Korea/Taiwan)

| Carrier | Docomo | KDDI | Softbank | Telstra | Generic |
|---------------------------|---|---------------------|----------------------------------|--|--|
| Network | LTE CAT6 | LTE CAT6 | LTE CAT6 | LTE CAT6 | LTE CAT6 |
| Speed (Downlink) | < 300 Mbps | < 300 Mbps | < 300 Mbps | < 300 Mbps | < 300 Mbps |
| Speed (Uplink) | < 50 Mbps | < 50 Mbps | < 50 Mbps | < 50 Mbps | < 50 Mbps |
| Fallback Network | HSPA+ | NA | HSPA+ | HSPA+ | HSPA+ |
| Fallback Speed (Downlink) | HSPA+ 42 Mbps | NA | HSPA+ 42 Mbps | HSPA+ 42 Mbps | HSPA+ 42 Mbps |
| Frequency Bands | LTE Band 1,3,19,21,28 UMTS Band 1, 9, 19 | LTE Band 1,18,28,41 | LTE Band 1,8,41 UMTS band 1,8 | LTE Band 1,3,7,8, 28 UMTS Band 1, 5 | LTE Band 1,3,5,7,8, 18,19,21,28,38,39,40,41 |

| Carrier | Docomo | KDDI | Softbank | Telstra | Generic |
|-----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|
| | | | | | UMTS Band 1,5,6,8,9,19 TD- SCDMA Band 39 |
| LTE/WWAN Antenna | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) | Main (Tx/Rx) +Aux (Rx/GNSS) |
| Operating System Support | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits | Windows 8.1, 32/64 bits |
| | Windows 7, 32/64 bits | Windows 7, 32/64 bits | Windows 7, 32/64 bits | Windows 7, 32/64 bits | Windows 7, 32/64 bits |
| | Windows 10, 32/64 bits | Windows 10, 32/64 bits | Windows 10, 32/64 bits | Windows 10, 32/64 bits | Windows 10, 32/64 bits |
| Host Interface | Supported both | Supported both | Supported both | Supported both | Supported both |
| | USB 3.1 Gen 1/USB 2.0 | USB 3.1 Gen 1/USB 2.0 | USB 3.1 Gen 1/USB 2.0 | USB 3.1 Gen 1/USB 2.0 | USB 3.1 Gen 1/USB 2.0 |

Wired communications

Table 37. Wired communications

| Network Adapter (NIC) - Intel | Specifications |
|---|---|
| Intel i219LM Gigabit Ethernet Controller | Integrated on system board |
| External connector type | RJ-45 |
| Data Rates | 10/100/1000 Mbps |
| Controller bus architecture | PCI-e V1.1x1 |
| Power consumption (full operation per data rate connection speed) | <ul style="list-style-type: none"> • 1000 Mbps: 542 mW • 100 Mbps: 264 mW • 10 Mbps: 306 mW |
| Power consumption (standby operation) | <ul style="list-style-type: none"> • WOL Disabled: 0mW (LAN disabled using BIOS) • No Link (w/ WOL): 0.13 mW (cable Disconnected) • 10 Mbps Idle (w/ WOL): 76 mW • 100 Mbps Idle (w/ WOL): 169 mW |
| IEEE standards compliance | 802.3, 802.3ab, 802.3u, 802.az |
| Boot ROM Support | Support boot from PXE option ROM |
| Network Transfer Rate | Full duplex at 10, 100, or 1000 Mbps and half duplex at 10 or 100 Mbps. |
| Operating Temp/Storage Temp | 0C to 85C/-40C to 125C(storage) |
| Operating Humidity | 20% to 80% (non-condensing) |
| Operating System Driver support | Linux, Win7, Win8, Win10 |
| Manageability | WOL, PXE |
| Management Capabilities Alerting | AMT 11 / DASH 1.1 |

Hardware and Software Security

Table 38. Hardware Security

| Hardware Security | Available? |
|---|------------|
| TPM 2.0 FIPS 140-2 Certified, TCG Certified | Yes |
| BIOS disable TPM (China) | Yes |
| Optional Control Vault 2.0 Advanced Authentication with FIPS 140-2 level 3 certification (HW authentication configurations) | Yes |
| Optional hardware authentication bundle 2: <ul style="list-style-type: none"> · FIPS 201 contacted smart card · Control Vault 2.0 | Yes |
| Optional hardware authentication bundle 4: <ul style="list-style-type: none"> · Touch finger print reader · FIPS 201 contacted smart card · Contactless smart card · NFC · Control Vault 2.0 | Yes |
| Security lock slot (Noble Wedge Lock) | Yes |
| SED (Opal 2.0 - SATA Interface) | Yes |
| Statement of Non-Volatility | Yes |

Table 39. Software Security

| Software security | Available? |
|---|------------|
| Latitude Security software per software functional plan/cycle list | Yes |
| D-Pedigree for BIOS (Secure Supply Chain Functionality) provides : <ul style="list-style-type: none"> · Secure Supply Chain for a Product covers BIOS Image Integrity · Chain of Custody · Part Traceability | Yes |

Security Option Fingerprint Reader

Table 40. Fingerprint Reader

| Category | Description | NB-2024-S2 |
|-------------------------------------|---|-------------------|
| Sensor Technology | Describes the technology of the sensor (Optical, thermal, capacitive, etc.) | Active Thermal |
| Sensor Resolution | Resolution of image captured by sensor | 385dpi |
| Sensor Size | physical size of sensor | 11.9 mm x 11.9 mm |
| Sensor Pixel Size | Amount of pixels used to capture image | 180x180 pixels |
| Connection to Dell ControlVault 2.0 | N/A | SPI |

| Category | Description | NB-2024-S2 |
|----------------------------------|---|-----------------------------|
| Dell ControlVault support | Device connects to Dell ControlVault for usage and processing | No |
| Dell ControlVault 2.0 support | Device connects to Dell ControlVault 2.0 for usage and processing . Enabled through Dell ControlVault driver . | Yes |
| Programmed False Accept Rate | Describes the programmed rate at which the fingerprint match algorithm is set to ensure false fingers are not accepted | 0.10% |
| Programmed False RejectionRate | Describes the programmed rate at which the fingerprint match algorithm is set to inappropriately reject a proper finger | 1.00% |
| Template storage | Describes the location of where templates are stored for future reference | Dell ControlVault encrypted |
| Markers to generate template | Number of markers utilized to generate a successful match of presented fingerprint | >12 |
| Match on chip | Match of fingerprint occurs off host of main CPU to remove possibility of spoofing | No |
| FIPS 201 (PIV/HSPD-12) Certified | Device certified with FIPS 201/PIV/HSPD-12 requirements | No |
| ANSI/INCITS 378 standard support | Template creation process provides support for ANSI/INCITS 378 standard | Yes |

Security Option Dell ControlVault 2.0

Table 41. Dell ControlVault 2.0

| Title | Description | Dell ControlVault 2.0 |
|--------------------------------|---|-----------------------|
| CPU Technology | N/A | 250 Mhz ARM M3 |
| RAM | N/A | 385dpi |
| ROM | N/A | 11.9 mm x 11.9mm |
| TPM included | TPM enumeration included within ControlVault | No |
| Host Interface | N/A | USB 2.0 |
| Fingerprint Processing on Chip | Fingerprint processing occurs within secure boundary of ControlVault | Yes |
| Windows WBF Support | Support for Windows Biometric Framework when Fingerprint Reader is attached | Yes |
| FIPS 140-2 Level 3 Compliant | Device compliant with FIPS 140-3 Level 2 requirements | Yes |
| FIPS 140-2 Level 3 Certified | Device certified with FIPS 140-3 Level 2 requirements | Yes |
| Windows Certified | WHCK certified drivers for Windows 7, 8, 8.1, 10 | Yes |

| Title | Description | Dell ControlVault 2.0 |
|--------------|--|---|
| Compliance | Selective Suspend Support, Connected Standby Support, Modern Standby Support | Supports Selective Suspend as defined by Microsoft requirements |

Security Option Contacted Smartcard Reader

Table 42. Contacted Smartcard Reader

| Title | Description | Dell ControlVault 2.0 Smartcard Reader |
|--|---|---|
| ISO 7816 -3 Class A Card Support | Reader capable of reading 5 V powered smartcard | Yes |
| ISO 7816 -3 Class B Card Support | Reader capable of reading 3 V powered smartcard | Yes |
| ISO 7816 -3 Class C Card support | Reader capable of reading 1.8 V powered smartcard | No |
| T=0 support | Cards support character level transmission | Yes |
| T=1 support | cards support block level transmission | Yes |
| EMVCo Compliant | Compliant with EMVCo (for electronic payment standards) smartcard standards as posted to www.emvco.com | Yes |
| EMVCo Compliant | Formally certified based on EMVCO smartcard standards | Yes |
| PC/SC OS interface | Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments | Yes |
| CCID driver compliance | Common driver support for Integrated Circuit Card Interface Device for OS level drivers. | Yes |
| Windows Certified | Device certified by Microsoft WHCK | Yes |
| FIPS 201 (PIV/HSPD-12) Compliant via GSA | Device compliant with FIPS 201/PIV/HSPD-12 requirement | Yes |
| ISO 7816-1 Compliant - | Specification for the reader | Yes |
| ISO 7816 -2 Compliant - | Specification for smartcard device physical characteristics (size, location of connection points, etc.) | N/A |
| Dell ControlVault support | Device connects to Dell ControlVault for usage and processing | Yes |

Security Option Contactless Smartcard Reader

Table 43. Contactless Smartcard Reader

| Type | Description | Dell ControlVault 2.0 Contactless Smartcard Reader with NFC |
|---|--|---|
| Felica Card Support | Reader and software capable of supporting Felica contactless cards | Yes |
| Prox (Proximity) (125 kHz) Card support | Reader and software capable of supporting Prox /Proximity/125 kHz contactless cards | No |
| ISO 14443 Type A Card Support | Reader and software capable of supporting ISO 14443 Type A contactless cards | Yes |
| ISO 14443 Type B Card Support | Reader and software capable of supporting ISO 14443 Type B contactless cards | Yes |
| ISO/IEC 21481 | Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens | Yes |
| ISO/IEC 18092 | Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens | Yes |
| ISO 15693 Card Support | Reader and software capable of supporting ISO15693 contactless cards | Yes |
| NFC Tag Support | Supports reading and processing of NFC compliant tag information | Yes |
| NFC Reader Mode | Support for NFC Forum Defined Reader mode | Yes |
| NFC Writer Mode | Support for NFC Forum Defined Writer mode | Yes |
| NFC Peer-to-Peer Mode | Support for NFC Forum Defined Peer to Peer mode | Yes |
| EMVCo Compliant | Compliant with EMVCO smartcard standards as posted to www.emvco.com | Yes |
| EMVCo Certified | Formally certified based on EMVCO smartcard standards | Yes |
| NFC Proximity OS Interface | Enumerates NFP (Near Field Proximity) device for OS to utilize | Yes |
| PC/SC OS interface | Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments | Yes |
| CCID driver compliance | Common driver support for Integrated Circuit Card Interface Device for OS level drivers. | Yes |
| Host Interface | What physical interface is the reader connected to the host on? | USB |
| Windows Certified | Device certified by Microsoft WHCK | Yes |

| Type | Description | Dell ControlVault 2.0 Contactless Smartcard Reader with NFC |
|---------------------------|---|---|
| Dell ControlVault support | Device connects to Dell ControlVault for usage and processing | Yes |

Integrated graphics controller

Table 44. Integrated graphics controller - Intel HD graphics 620

| Integrated Graphics Controller | Intel HD Graphics 620 |
|--|--|
| Bus Type | Internal PCIe |
| Memory Interface | N/A (unified memory architecture) |
| Graphics Level | GT2 |
| Estimated Maximum Power Consumption (TDP) | 15 W included in the CPU power |
| Display Support | On System: <ul style="list-style-type: none"> • eDP (internal display) • HDMI • VGA via Optional Type-C port • DisplayPort 1.2 via Optional Type-C port • DVI via Optional Type-C port |
| Maximum Vertical Refresh Rate | Up to 85 Hz depending on resolution |
| Operating Systems Graphics/ Video API Support | Support for DirectX 12, OpenCL 2.0, OpenGL 4.3/4.4 , OpenGL ES |
| Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital) | System ports: Max Digital: (HDMI) 2560x1600, 4096x2304@24 Hz Docked: <ul style="list-style-type: none"> • Max Digital: (DisplayPort 1.2) 3840 x2160 @60 Hz • Max Digital: (SL-DVI) 1920x1080 @60 Hz • Analog: (VGA) system (14 inch/15 inch) 2048x1152 @60 Hz For 3 displays: <ul style="list-style-type: none"> • Up to 1920x1200 max resolution each (native or docked). |
| Numbers of Displays Supported | <ul style="list-style-type: none"> • System Ports: 3 displays max with LCD plus 2 displays max on each output (HDMI, Type-C) • Docked: 3 displays max (combo of LCD, VGA, DP, HDMI) |

Table 45. Intel UHD Graphics 620 (8th Generation Intel Core) specification

| Integrated Graphics Controller | Intel UHD Graphics 620 (8th Generation Intel Core) |
|---|---|
| Bus Type | Internal PCIe |
| Memory Interface | N/A (unified memory architecture) |
| Graphics Level | i3/i5/i7: GT2 (UHD 620) |
| Estimated Maximum Power Consumption (TDP) | 10W (included in the CPU power) |
| Display Support | On System: <ul style="list-style-type: none"> • eDP (internal display) |

| | |
|---|---|
| | <ul style="list-style-type: none"> · HDMI · VGA via Optional Type-C port · DisplayPort 1.2 via Optional Type-C port · DVI via Optional Type-C port |
| Maximum Vertical Refresh Rate | Up to 85Hz depending on resolution |
| Operating Systems Graphics/ Video API Support | DirectX 11 (Windows 7/8.1), DirectX 12 (Windows 10), OpenGL 4.3 |
| Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital) | <p>System ports:</p> <ul style="list-style-type: none"> · Max Digital: (HDMI) 4096x2304@24Hz · Analog: (VGA) system (14 inches/15 inches) or docking 2048x1152 @ 60Hz <p>Docked:</p> <ul style="list-style-type: none"> · Max Digital: (DisplayPort 1.2) 3860 x2160 @ 60Hz · Max Digital: (SL-DVI) 1920x1080 @ 60Hz · Analog: (VGA) system (14 inches/15 inches) 2048x1152 @ 60Hz <p>For 3 displays:</p> <ul style="list-style-type: none"> · Up to 1920x1200 max resolution each (native or docked). |
| Numbers of Displays Supported | <ul style="list-style-type: none"> · System Ports - 3 displays max with LCD plus 1 display max on each output (HDMI, VGA (14 inches/15 inches)) · Docked - 3 displays max (combo of LCD, VGA, DP, HDMI) |

Display specifications for Latitude 7290

Table 46. 12.5 inches (16:9) AG HD WLED 200 nits eDP 1.2 TN , 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"> · Height: 155.52mm · Width: 276.62mm · Diagonal: 12.5 inch |
| Native Resolution | 1366x768 |
| Megapixels | 1.05 |
| Pixels per Inch (PPI) | 125 |
| Contrast Ratio (min) | 300:1 |
| Response Time (max) | 25 msec rise/fall |
| Refresh Rate | 60 Hz |
| Horizontal View Angle | +/- 40 degrees |
| Vertical View Angle | +10/-30 degrees |
| Pixel Pitch | 0.2025 mm |
| Power Consumption (maximum) | 2.9 W |

Table 47. 12.5 inches (16:9) AG HD WLED 200 nits eDP 1.2 TN, HD 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"> · Height: 155.52mm · Width: 276.62mm · Diagonal: 12.5 inch |
| Native Resolution | 1366x768 |
| Megapixels | 1.05 |
| Pixels per Inch (PPI) | 125 |
| Contrast Ratio (min) | 300:1 |
| Response Time (max) | 25 msec rise/fall |
| Refresh Rate | 60 Hz |
| Horizontal View Angle | +/- 40 degrees |
| Vertical View Angle | +10/-30 degrees |
| Pixel Pitch | 0.2025 mm |
| Power Consumption (maximum) | 2.9 W |

Table 48. 12.5 inches (16:9) AG HD WLED 200 nits eDP 1.2 TN, Mic only, 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"> · Height: 155.52mm · Width: 276.62mm · Diagonal: 12.5 inch |
| Native Resolution | 1366x768 |
| Megapixels | 1.05 |
| Pixels per Inch (PPI) | 125 |
| Contrast Ratio (min) | 300:1 |
| Response Time (max) | 25 msec rise/fall |
| Refresh Rate | 60 Hz |
| Horizontal View Angle | +/- 40 degrees |
| Vertical View Angle | +10/-30 degrees |
| Pixel Pitch | 0.2025 mm |
| Power Consumption (maximum) | 2.9 W |

Display specifications for Latitude 7390

Table 49. 13.3 inch(16:9) AG FHD WLED 300 nits eDP 1.3 WVA

| Feature | Specification |
|-----------------------------|--|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height: 165.08 mm · Width: 293.47 mm · Diagonal: 13.3 inch |
| Native Resolution | 1920 x 1080 |
| Megapixels | 2.07 |
| Pixels per Inch (PPI) | 166 |
| Contrast Ratio (min) | 600:1 |
| Response Time (max) | 35 msec rise/fall |
| Refresh Rate | 60 Hz |
| Horizontal View Angle | +/- 80 degrees |
| Vertical View Angle | +/- 80 degrees |
| Pixel Pitch | 0.153 mm |
| Power Consumption (maximum) | 4.6 W |

Table 50. 13.3 inch (16:9) AG FHD Touch WLED 300 nits eDP 1.3 WVA

| Feature | Specification |
|-----------------------------|---|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height:165.08 mm · Width: 293.47 mm · Diagonal: 13.3 inch |
| Native Resolution | 1920 x 1080 |
| Megapixels | 2.07 |
| Pixels per Inch (PPI) | 166 |
| Contrast Ratio (min) | 600:1 |
| Response Time (max) | 35 msec rise/fall |
| Refresh Rate | 60 Hz |
| Horizontal View Angle | +/- 80 degrees |
| Vertical View Angle | +/- 80 degrees |
| Pixel Pitch | 0.153 mm |
| Power Consumption (maximum) | 5.2 W |

Display specifications for Latitude 7490

Table 51. 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"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 52. 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"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 53. 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"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 54. 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"> · Height: 173.95 mm (maximum) without metal tabs mm · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 55. 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

| Feature | Specification |
|-----------------------------|---|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 56. 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

| Feature | Specification |
|-----------------------------|---|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height: 173.95 mm(maximum) without metal tabs · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 57. 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

| Feature | Specification |
|-----------------------------|---|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height: 173.95 mm(maximum) without metal tabs · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 58. 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

| Feature | Specification |
|-----------------------------|---|
| Type | FHD Anti-Glare |
| Luminance (typical) | 300 nits |
| Dimensions (Active Area) | <ul style="list-style-type: none"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 59. 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"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 60. 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"> · Height: 173.95 mm(maximum) · Width: 309.4 mm(maximum) · Diagonal: 14.0 inch |
| 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 |

Monitor support

Table 61. Monitor support

| Docked | Dell Dock | Dell Thunderbolt Dock |
|--|---|---|
| Maximum Number of Displays=3 Two external monitors + LCD <ul style="list-style-type: none"> LCD (HD/FHD) supported with Universal cable VGA max. 1920*1200 @ 60Hz DVI max. 1920*1200@60Hz DP max. 3840*2160 @ 60Hz USb Type-C (max. 3840*2160 @ 60Hz) | Maximum Number of Displays=3 Three from system and dock ports <ul style="list-style-type: none"> VGA DisplayPort (max. 3840*2160 @ 30Hz) HDMI 1.4 (max. 3840*2160 @ 30Hz) supported with Universal cable | Maximum Number of Displays=3 Three from system and dock ports <ul style="list-style-type: none"> VGA DisplayPort mini DisplayPort HDMI 1.4 (max. 3840*2160 @ 30Hz) supported with Universal cable USB Type-C (max. 3840*2160 @ 60Hz) |

Battery specifications

This topic lists out the detailed battery specifications. Battery is a FRU and is beneath the back cover.

Table 62. Battery specifications

| | 42 WHr ExpressCharge Capable (3-cell) (prismatic) | 60 WHr ExpressCharge Capable (4-cell) (polymer) | 60 WHr Long Life Cycle battery (4-cell) (polymer) |
|----------------------------|--|---|---|
| Battery Type | Li-ion | Li-ion | Li-ion |
| System Compatibility | 12/14 U UMA | 12/14 U UMA | 12/14 U UMA |
| Dimension: | | | |
| Length | 200.5mm (7.89 inch) | 238mm (9.37 inch) | 238mm (9.37 inch) |
| Width | 95.9mm (3.78 inch) | 95.9mm (3.78 inch) | 95.9mm (3.78 inch) |
| Height | 5.70mm (0.22 inch) | 5.70mm (0.22 inch) | 5.70mm (0.22 inch) |
| Weight | 185.00 g (0.41lb) | 270.00 g (0.6lb) | 270.00 g (0.6lb) |
| Voltage | 11.4VDC | 7.6VDC | 7.6VDC |
| Typical Amp-hour capacity | 3.68Ahr | 7.89Ahr | 7.89Ahr |
| Typical Watt-hour capacity | 42Whr | 60Whr | 60Whr |
| Operating time | <p>NOTE: Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions.</p> | | |
| Temperature range: | Charge: 0 °C to 50 °C, 32 °F to 158 °F | | |
| Operating | Discharge: 0 °C to 70 °C, 32 °F to 122 °F | | |
| Temperature range: | -20°C to 65 °C (4 °F to 149 °F) | | |

| | 42 WHr ExpressCharge Capable (3-cell) (prismatic) | 60 WHr ExpressCharge Capable (4-cell) (polymer) | 60 WHr Long Life Cycle battery (4-cell) (polymer) |
|--------------------------------|--|---|---|
| Non-Operating | | | |
| Charging time (ExpressCharge) | <ul style="list-style-type: none"> · 0~15degC: 4 hour · 16~60degC: 3 hours | | |
| ExpressCharge Capable | Yes | Yes | No |
| BATTMAN Capable | Yes | Yes | No |
| Life span (approximate) | Standard pack : 1 year warranty for 300 cycles | Standard pack : 1 year warranty for 300 cycles | LCL pack : 3 year warranty for 1000 cycles |

Express Charge benefits

- For a battery advertised as having the ExpressCharge feature, the battery typically will have greater than 80% charge after about an hour of charging with the system off, and fully charged in about 2 hours with the system off.
- Enabling Expresscharge requires that both the Latitude notebook and the battery that is used on the system be ExpressCharge capable. If any of the above requirements is missing, ExpressCharge will not be enabled.

Keyboard

Table 63. Keyboard Specifications for Latitude 7290

| | 12.5 (ISU/ISUB) |
|--|--|
| Number of keys | 82 (U.S), 83 (UK), 84 (BZ), 86 (JP) |
| Layout | US/UK/ BZ/JP |
| Size | full sized (18.05mm key pitch) |
| Backlit keyboard option | Yes |
| Base no fingerprint reader, no contacted smartcard, no contactless smartcard, no Control Vault | Single Pointing Backlit/non-backlit |
| Smart card only Contacted smartcard, Control Vault | Single Pointing Backlit/non-backlit |
| Standard fingerprint reader, contacted smartcard, contactless smart card/NFC, Control Vault | Single Pointing Backlit/non-backlit |

Table 64. Keyboard Specifications Latitude 7390

| | 13.3 (ISU/ISUB) |
|----------------|-------------------------------------|
| Number of keys | 82 (U.S), 83 (UK), 84 (BZ), 86 (JP) |
| Layout | US/UK/ BZ/JP |
| Size | full sized (19.05 mm key pitch) |

| | 13.3 (ISU/ISUB) |
|--|---|
| Backlit keyboard option | Single Pointing, non backlit and Single Pointing, backlit |
| Base no fingerprint reader, no contacted smartcard, no contactless smartcard, no Control Vault | Single Pointing Backlit/non-backlit |
| Smart card only Contacted smartcard, Control Vault | Single Pointing Backlit/non-backlit |
| Standard fingerprint reader, contacted smartcard, contactless smart card/NFC, Control Vault | Single Pointing Backlit/non-backlit |

Table 65. Keyboard Specifications Latitude 7490

| | 14.1 (ISU/ISUB) |
|--|---|
| Number of keys | 82 (U.S), 83 (UK), 84 (BZ), 86 (JP) |
| Layout | US/UK/ BZ/JP |
| Size | full sized (19.05mm key pitch) |
| Backlit keyboard option | Yes |
| Base no fingerprint reader, no contacted smartcard, no contactless smartcard, no Control Vault | Single Pointing Non-backlit/ Dual Pointing Backlit |
| Smart card only Contacted smartcard, Control Vault | Dual Pointing Backlit |
| Standard fingerprint reader, contacted smartcard, contactless smart card/NFC, Control Vault | Dual Pointing Backlit |

Hot Key combinations

Table 66. Keyboards Hot Key combinations for Latitude 7290 and 7390

| Fn Key Combination | 12 inches and 13 inches |
|---------------------------|--|
| 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 Backlight Brightness |

| | |
|------------------|-----------------------|
| Fn + F11 | Print screen |
| Fn + F12 | Insert |
| Fn + Home | Wireless |
| Fn + End | Sleep |
| Fn + up Cursor | Panel Brightness Up |
| Fn + down Cursor | Panel Brightness Down |

Table 67. Keyboards Hot Key combinations for Latitude 7490

| Fn Key Combination | 14 inches |
|---------------------------|--|
| 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 Backlight Brightness |
| Fn + F11 | Panel Brightness Down |
| Fn + F12 | Panel Brightness Up |
| Fn + Prt Scr | Wireless |
| Fn + Insert | Sleep |
| Fn + Left Cursor | Home |
| Fn + Right Cursor | End |

Touchpad

Table 68. Touch Pad

| X/Y position resolution | X: 1221; Y:622 |
|--------------------------------|---|
| Size | Sensor-active area: X-axis 101.7mm (4.0 inch) Y-axis 52mm (2.04 inch) |
| Multi-Touch | Configurable single finger and multi-finger gestures |

Table 69. Touch Pad

| Supported Gestures | Windows 10 |
|---|------------|
| Cursor moving | Supported |
| Clicking/ tapping | Supported |
| Click and drag | Supported |
| 2-finger scroll | Supported |
| 2-finger Pinch/ Zoom | Supported |
| 2-finger tap (Right Clicking) | Supported |
| 3-finger tap (Invoke Cortana) | Supported |
| 3-finger swipe up (See all open windows) | Supported |
| 3-finger swipe down (Show the desktop) | Supported |
| 3-finger swipe horizontally (Switch between open windows) | Supported |
| 4-finger tap (Invoke Action Center) | Supported |
| 4-finger swipe horizontally (Switch virtual desktops) | Supported |

Power Adapters

Table 70. Power Adaptors specifications

| Adapter Specifications | E5 65W* | E5 90W* | 65W E5 for India |
|------------------------|---|--|---|
| Input voltage | 100 to 240 VAC | 100 to 240 VAC | 100 to 240 VAC |
| System Supportability | 12/14/15 U UMA 14/15 H UMA 14/15 U Discrete | 14/15 H Discrete 12/14/15 U UMA (upsell) 14/15 U Discrete (upsell) | 12/14/15 U UMA 14/15 H UMA 14/15 U Discrete |
| Input current (max) | 1.7 A | 1.6 A | 1.7 A |
| Input frequency | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz |
| Output current | 3.34 A (continuous) | 4.62 A (continuous) | 3.34 A (continuous) |
| Rated output voltage | 19.5 VDC | 19.5 VDC | 19.5 VDC |
| Weight (lbs) | 0.51 | 0.77 | 0.51 |
| Weight (kg) | 0.23 | 0.32 | 0.23 |
| Dimensions (inches) | 0.87 x 2.60 x 4.17 | 0.87 x 2.60 x 5.12 | 0.87 x 2.60 x 4.17 |
| Dimensions (mm) | 22 x 66 x 106 | 22 x 66 x 130 | 22 x 66 x 106 |
| Temperature range: | 0 o to 40 o C | 0 o to 40 o C | 0 o to 40 o C |
| Operating | 32 o to 104 o F | 32 o to 104 o F | 32 o to 104 o F |
| Storage | -40 o to 70 o C -40 o to 158 o F | -40 o to 70 o C -40 o to 158 o F | -40 o to 70 o C -40 o to 158 o F |

Table 71. Power Adaptors length and weight

| | E4 BFR/PVC free or E5 65W Standard Power Cord+ Adapter OR E4 BFR/PVC free | E5 90W Standard Power Cord+ Adapter |
|---------------|--|--|
| Weight | E5/E4 BFR/PVC | E5 |
| Grams | 310 | 310 |
| Pounds | 0.68 | 0.68 |
| Length | E5/E4 BFR/PVC | E5 |
| Meters | 2.9 | 2.9 |
| Feet + Inches | 9 feet 2.2 inches | 9 feet 2.2 inches |

Operating conditions

Table 72. Operating conditions and MIL-STD 810G Testing Performed

| Model | Dell Latitude 7000 Series |
|------------------------------|---|
| Temperature Range | Operating 0°C to 35°C (32°F to 95°F) Storage -40°C to 65°C (-40°F to 149°F) |
| Relative humidity (maximum) | Operating 10% to 90% (non-condensing) Storage 5% to 95% (non-condensing) |
| Altitude (maximum) | Operating : 0 to 3048 m (0 to 10,000 ft) Storage: 0 to 10668 m |
| MIL-STD-810G Tests Performed | <ul style="list-style-type: none"> • METHOD 500.5 LOW PRESSURE (ALTITUDE) Procedure I - Storage/Air Transport • METHOD 501.5 HIGH TEMPERATURE Procedure I Induced (Storage and Transition) Conditions • METHOD 500.5 LOW PRESSURE (ALTITUDE) Procedure II - Operation/Air Carriage • METHOD 501.5 HIGH TEMPERATURE Procedure II - Operation Cycling temperature exposure • METHOD 502.5 LOW TEMPERATURE Procedure I (Exaggerated) • METHOD 502.5 LOW TEMPERATURE Procedure II • METHOD 507.5 Procedure II Humidity Aggravated Cycle • METHOD 510.5 SAND AND DUST Procedure I • IP5x Dust Ingress Duration: 8 hours • METHOD 514.6 VIBRATION Procedure I • Method 516.6 SHOCK Procedure I: Functional Shock • Method 516.6 SHOCK Procedure IV: Transit Drop; Modified to be dropped at 30 • Method 516.5 SHOCK Procedure II: Material to be Packaged • Method 516.5 SHOCK Procedure V: Crash Hazard Shock • Method 516.6 SHOCK Procedure VI: Bench Handling |

Getting help

Contacting Dell

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- 1 Go to **Dell.com/support**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
- 4 Select the appropriate service or support link based on your need.