

DELL Technologies

LATITUDE 9510

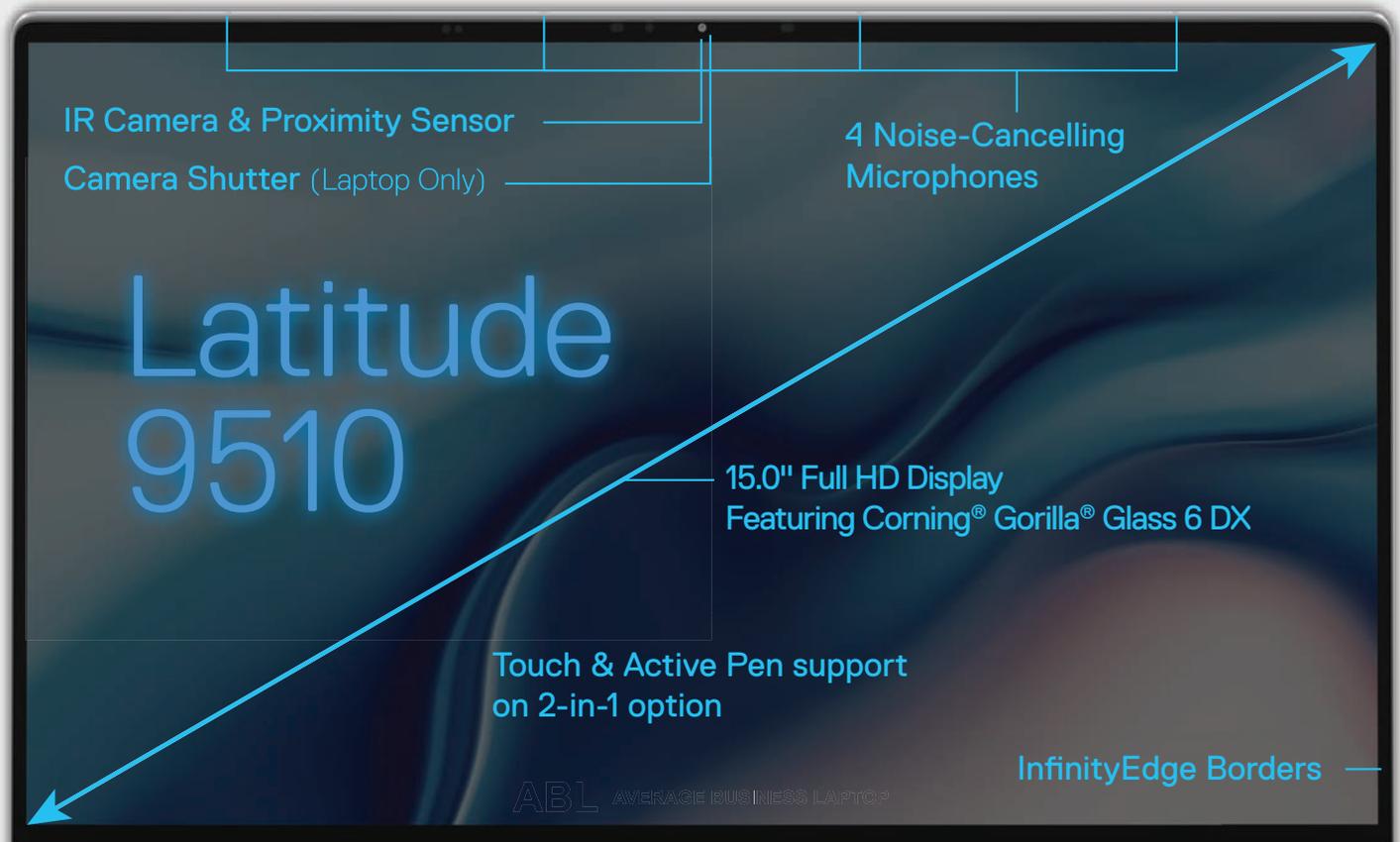
# Does your PC know you?



Configurable as a laptop or 2-in-1



A look inside Latitude 9510	2
Latitude 9510 overview	3 - 5
Dell Optimizer	6 - 10
Recommended Accessories	11
Technical Specifications	12 - 13
Important information	14



IR Camera & Proximity Sensor  
Camera Shutter (Laptop Only)

4 Noise-Cancelling  
Microphones

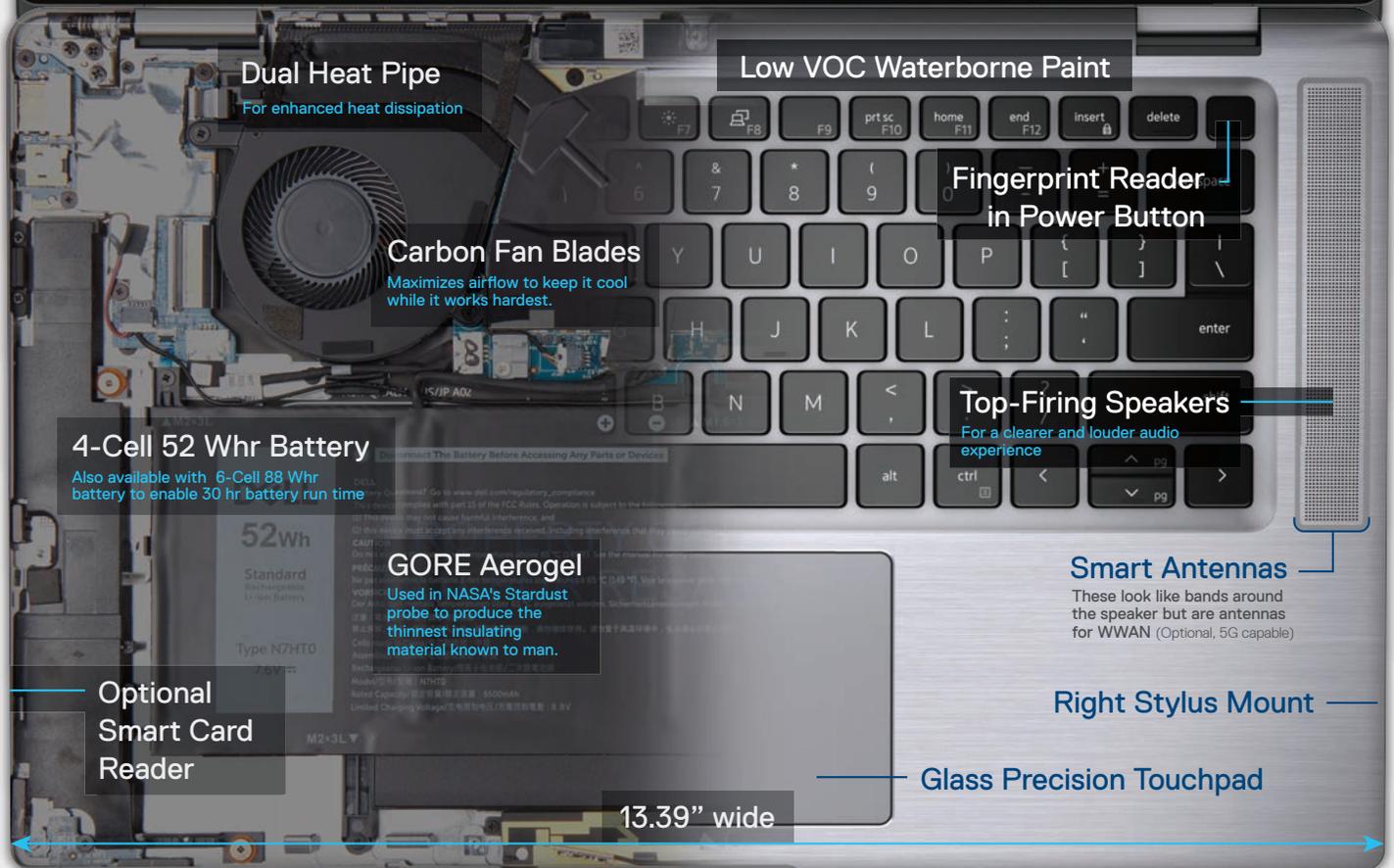
# Latitude 9510

15.0" Full HD Display  
Featuring Corning® Gorilla® Glass 6 DX

Touch & Active Pen support  
on 2-in-1 option

InfinityEdge Borders

ABL AVERAGE BUSINESS LAPTOP



Dual Heat Pipe  
For enhanced heat dissipation

Low VOC Waterborne Paint

Fingerprint Reader  
in Power Button

Carbon Fan Blades  
Maximizes airflow to keep it cool  
while it works hardest.

Top-Firing Speakers  
For a clearer and louder audio  
experience

4-Cell 52 Whr Battery  
Also available with 6-Cell 88 Whr  
battery to enable 30 hr battery run time

GORE Aerogel  
Used in NASA's Stardust  
probe to produce the  
thinnest insulating  
material known to man.

Smart Antennas  
These look like bands around  
the speaker but are antennas  
for WWAN (Optional, 5G capable)

Optional  
Smart Card  
Reader

Right Stylus Mount

Glass Precision Touchpad

13.39" wide



## Everything you need in the longest running 15.0” business PC<sup>18</sup>

- Built for ultimate mobility as the **first 10th Gen Intel® Core™ vPro® U class Athena-verified business PC<sup>26</sup>**
- Astoundingly small **14” chassis** with expansive 15.0” screen, starting at 3.1 lbs./1.4 kg.<sup>21</sup> World’s **smallest, lightest** ultra-premium 15” business PC
- No need to carry chargers, adapters, hot spots or to find a conference phone with Latitude 9510
- Breaks records with with up to **34 hrs of battery life<sup>18</sup>**
- Stay connected with choices of **Gigabit LTE, 5G design,<sup>20</sup> and new eSIM** technology that connects to more global carriers<sup>20</sup> without having to switch SIM cards
- Available as a **laptop** or **2-in-1; easy power on** by opening the lid



## This PC becomes your speakerphone to work wherever

- A **powerful amp** improves low range vocals and **reduces distortion and echoes**
- 4 microphones and Voice Over Internet Protocol (VOIP) network prioritization allow users to be **heard with real life clarity**
- Waves Maxx<sup>®</sup> Audio **finely tunes** for an in person conference experience



## Latitude 9510 includes all the ports you need

- 1x HDMI 2.0
- 2x Thunderbolt™ 3 USB Type C  
(with Power Delivery & DisplayPort)
- uSD4.0 Memory card reader
- 1x USB Type A (with PowerShare)
- Optional Contacted SmartCard Reader
- Wedge Lock Slot
- Audio jack

## Thermal innovation & sustainability



- IT can manage **thermals within the BIOS**. It's not tied to software which saves on hard drive size. To keep the system cool, we use **GORE aerogel**, **two heat pipes** and **carbon blade fans**. **Adaptive thermal response** ensures your PC is cooler on your lap than when on a desk.
- **Waterborne paint** is used on 100% of painted parts; **ocean-bound plastic** (25%) and HDPE **recycled plastic** (75%) comprise our packaging trays. **EPEAT Gold** registered.<sup>27</sup>

# Transform your remote working experience with Dell Optimizer



Work wherever and however you need

AI-based technology runs seamlessly in the background, learning and adapting to your usage style for a better experience

**Dell Optimizer software allows users to be more productive and provides:**

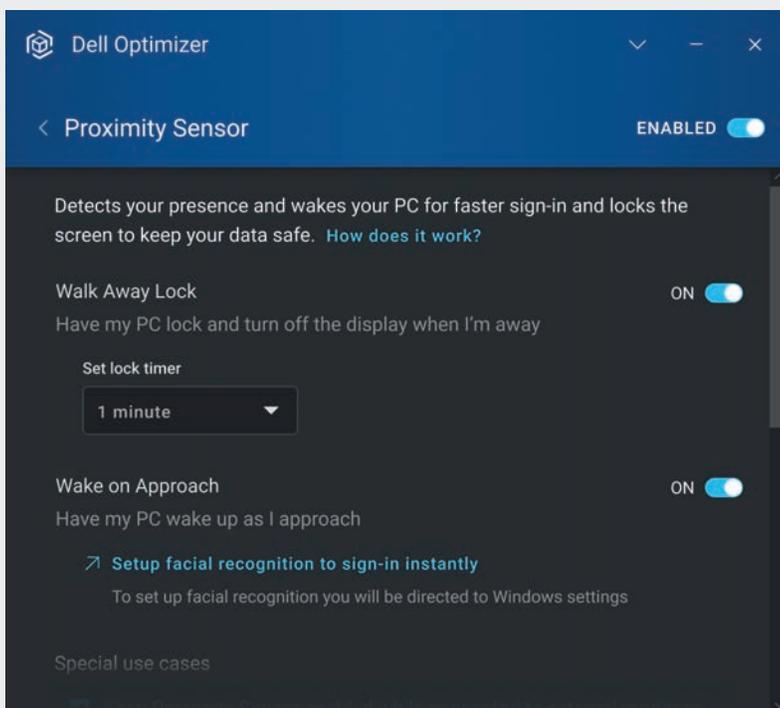
- Faster application launch<sup>27</sup>
- Improved application performance
- Improved battery runtime
- Enhanced audio & video quality
- Secure locking and faster sign-in
- Centralized IT management



# The world's most intelligent PCs featuring Dell Optimizer

## ExpressSign-In

ExpressSign-in detects your presence, enables faster sign-in, and locks the system screen when you walk away from your system. When your laptop is open, the proximity sensor detects your presence in front of the system. When you move out of the range of the sensor, the brightness of your system display reduces and locks your device based on the preferred lock time settings.



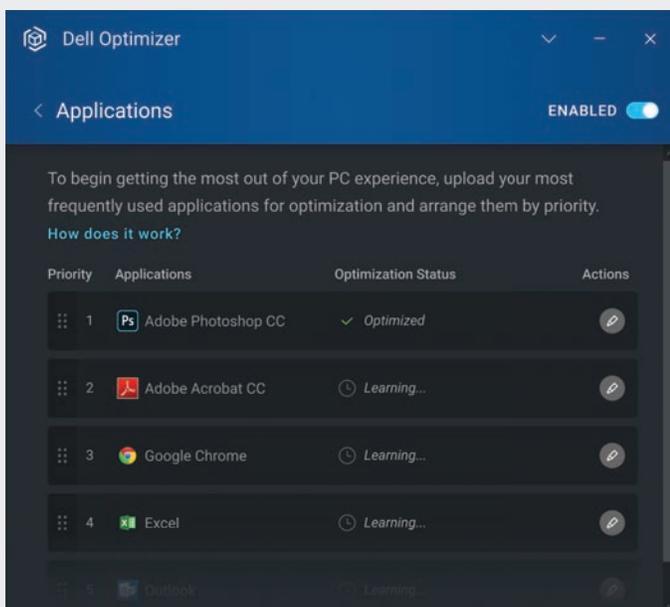
### How to get started:

- Go to the main Dell Optimizer home page and click on Proximity Sensor.
  - Toggle the Walk Away Lock button to on and set the screen lock timer.
  - Toggle the Wake on Approach button to on.
  - Once you walk away from your laptop, you will see your system lock after your selected time frame. When you step back up to your open laptop, Dell Optimizer for Precision will sense your presence and the screen will wake.
- 
- If you have set up Windows Hello, you will get signed in automatically without having to touch the system.
  - The Snooze button on the main screen temporarily disables the walk-away lock feature up to 120 minutes. Good for when the user is present but not actively engaged. For example, they are in a meeting room and steps away to write on the whiteboard.

# The world's most intelligent PCs featuring Dell Optimizer

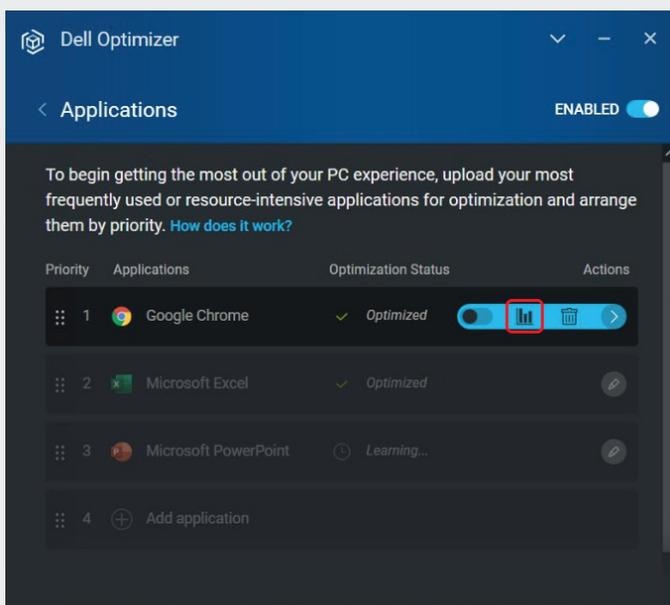
## ExpressResponse

ExpressResponse enhances the performance of most commonly used productivity apps from 4% to 35%.<sup>28</sup> Using machine learning, Dell Optimizer learns your behavior on selected applications, identifies optimization opportunities, and automatically applies appropriate settings to improve the application performance. **Easily see application improvement.**



### How to get started:

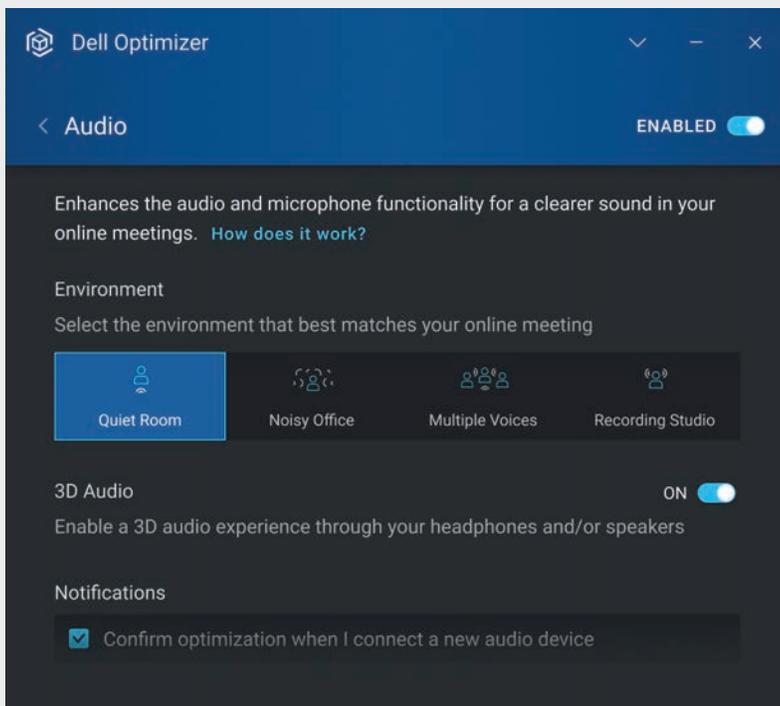
- Go to the main Dell Optimizer home page and click on Applications.
- The Applications section is displayed. Click on Add Application and select the application you want to optimize. Click Learn and Optimize.
- If the application is not listed, click Browse.
- You can select up to five applications and prioritize them by dragging applications up or down.
- You must use the selected application(s) for Dell Optimizer to learn your behavior. The learning period varies with the user and application and may take a couple of hours.
- Once the learning period has concluded, Dell Optimizer will dynamically apply settings to CPU/memory to optimize the application performance.
- Once optimized, you will be able to see the optimization score for that specific application.



# The world's most intelligent PCs featuring Dell Optimizer

## Intelligent Audio

This feature enhances the audio and microphone experience for your online meetings. Intelligent Audio adjusts for different environments by adjusting loudness, noise level, equalization and echo elimination.



### How to get started:

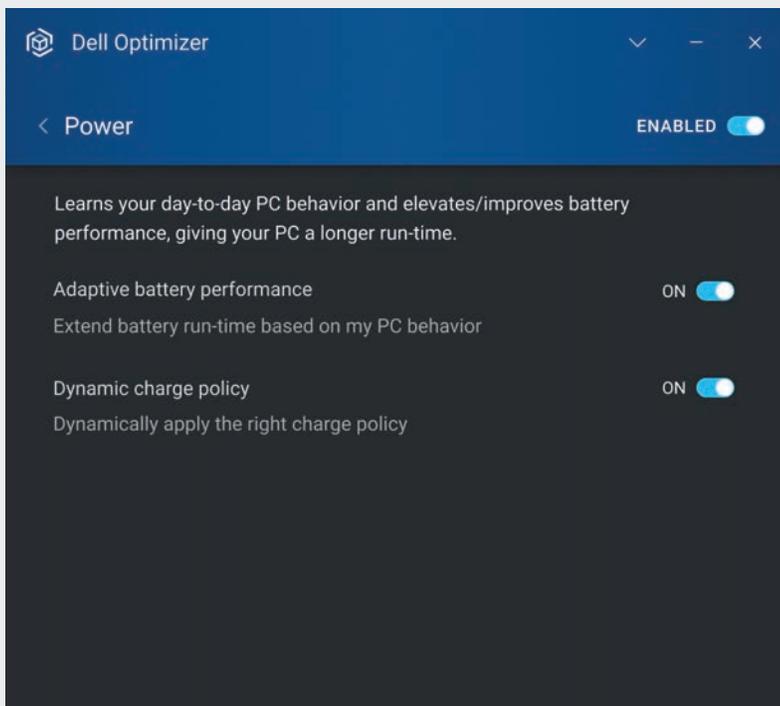
- Go to the main Dell Optimizer home page and click on Audio.
- Select from one of the four environments to enhance the audio experience for your conference call.
- Toggle the ON switch to enable 3D Audio.
- We recommend testing this experience with Google Hangouts or Zoom.

<p style="text-align: center;"><b><u>Quiet Room</u></b></p> <ul style="list-style-type: none"> <li>• Equalizes the quality of your voice</li> <li>• Employs less aggressive noise cancellation</li> </ul>	<p style="text-align: center;"><b><u>Noisy Office</u></b></p> <ul style="list-style-type: none"> <li>• Enhances speaker's voice</li> <li>• Reduces background noise so you can be heard</li> </ul>
<p style="text-align: center;"><b><u>Multiple Voices</u></b></p> <ul style="list-style-type: none"> <li>• Suitable for all environments (noise and quiet) with multiple speakers</li> <li>• Enhances the speakers' voices</li> <li>• Employs aggressive noise reduction and echo cancellation</li> </ul>	<p style="text-align: center;"><b><u>Recording Studio</u></b></p> <ul style="list-style-type: none"> <li>• Suitable for quiet environments with one or few people</li> <li>• Optimizes microphone performance and employs less aggressive noise cancellation</li> </ul>

# The world's most intelligent PCs featuring Dell Optimizer

## ExpressCharge

This feature improves the battery life of your system based on your charge and discharge behavior. It uses AI/machine learning models to learn how you use the battery on your device, apply appropriate charge policies and **extends battery life when you need it, up to 13%.**<sup>29</sup>



### How to get started:

- Go to the main Dell Optimizer home page and click on Power.
- Toggle button to turn on Adaptive battery performance.
- Toggle button to turn on Dynamic charge policy.
- Note that the Power features require a minimum of two weeks to learn and optimization settings are applied after the learning period.

# Recommended accessories

LATITUDE 9510

## ON-THE-GO



DELL PREMIUM  
ACTIVE PEN | PN579X

This Dell Active Pen allows you to easily take notes and stay organized with your Latitude 2-in-1.



DELL PREMIER SLEEVE 15 | PE1520VL

The Dell Premier Sleeve allows you to protect and take your laptop with its accessories wherever your busy day takes you.



DELL PREMIER  
BACKPACK 15 | PE1520P

Designed to allow you to move quickly through TSA security checkpoints without removing your laptop, this backpack's EVA foam cushioning will provide ultimate impact resistant protection to your work essentials.

## AT THE DESK



DELL THUNDERBOLT  
DOCK | WD19TB

Work at full speed with Dell's powerful Thunderbolt Dock. Charge your system faster, support up to two 4K displays and connect to your peripherals via a single cable.



DELL ULTRASHARP 27 4K USB-C  
MONITOR | U2720Q

Experience captivating details and true-to-life color reproduction on this brilliant 27" 4K monitor with a wide color coverage.



DELL MULTI-DEVICE WIRELESS  
KEYBOARD AND MOUSE  
COMBO | KM7120W

Designed to work seamlessly across 3 devices, this compact device keeps your desk clutter-free and lets you stay productive with up to 36 months battery life.<sup>24</sup>

# Features & technical specifications

## LATITUDE 9510

Feature	Technical Specifications	Feature	Technical Specifications
Processor <sup>1</sup>	Intel® Core™ Processors up to i7 vPro, CML-U (QC & HC) vPro coming	Docking <sup>1</sup>	Dell Dock - WD19 (optional, sold separately) Dell Thunderbolt Dock - WD19TB (optional, sold separately)
Operating System <sup>1</sup>	Microsoft® Windows 10 Pro 64 bit Microsoft® Windows 10 Home 64 bit Ubuntu (August 2020) (Laptop)	Optical Drive Options	External Options Only
Memory Options <sup>1,2,3</sup>	Up to 16GB LPDDR3 SDRAM 2133MHz (on board)	Multimedia <sup>1</sup>	Mechanical Privacy Shutter IR Camera (User-Facing fixed focus) + Proximity Sensor, or no Camera 2 x Top Firing Premium Speakers, Waves MaxxAudio, Smart Amp 4 x Noise Canceling Microphones Universal Audio jack
Chipset <sup>1</sup>	Integrated with the Processor	Battery Options <sup>1</sup>	4-Cell, 52 WHr <sup>6</sup> Polymer, ExpressCharge™ & ExpressCharge Boost capable 6-Cell, 88 WHr <sup>6</sup> Polymer, ExpressCharge™ capable 4-Cell, 52 WHr <sup>6</sup> Polymer Long Life Cycle (July 2020)
Intel Responsiveness Technologies <sup>1,7</sup>	Intel® Rapid Storage Technology	Power Options <sup>1</sup>	65W adapter, Type-C 90W adapter, Type-C
Graphics <sup>1,13</sup>	Intel® UHD Graphics (Integrated)	Connectivity options <sup>1,14</sup>	Microsoft Modern Standby compliant WiFi Display (Miracast) <sup>14</sup> <b>Wireless LAN Options<sup>8</sup>:</b> Intel® Wi-Fi 6 AX201 2x2 .11ax 160MHz + Bluetooth 5.1 <b>Mobile Broadband Options<sup>8,10</sup></b> Qualcomm® Snapdragon™ X20 LTE-A (DW5821e) (eSIM enabled), WW excluding China, Turkey, US Qualcomm® Snapdragon™ X20 LTE-A (DW5821e) WW Qualcomm® Snapdragon™ X20 LTE-A (DW5821e) for AT&T, Verizon & Sprint, US. Qualcomm® Snapdragon™ X55 Global 5G Modem (DW5930e) (July 2020) (2-in-1) (eSIM enabled), WW excluding China, Turkey, US Qualcomm® Snapdragon™ X55 Global 5G Modem (DW5930e) (July 2020) (2-in-1), WW Qualcomm® Snapdragon™ X55 Global 5G Modem (DW5930e) (Sep 2020) (2-in-1), Sprint Qualcomm® Snapdragon™ X55 Global 5G Modem (DW5930e) (Jan 2021) (2-in-1), AT&T, Verizon
Display <sup>1</sup>	<b>2-in-1</b> 15" 16:9 FHD (1920 x 1080) WVA Touch, Anti-reflective and Anti-Smudge, Corning® Gorilla Glass® 6 DX, Super Low Power, 400 nits, sRGB 100%, Active Pen Support <b>Laptop</b> 15"16:9 FHD (1920 x 1080), Anti-Glare, Super Low Power, 400 nits, sRGB 100%	Ports, Slots & Chassis <sup>1</sup>	1 x USB 3.2 Gen 1 (with PowerShare, USB Type-A) 2 x Thunderbolt™3 with Power Delivery & DisplayPort (USB Type-C) 1 x HDMI 2.0 1x external uSIM card tray option (WWAN only) 1 x uSD 4.0 Memory card reader 1 x Optional Contacted SmartCard Reader 1 x Optional Touch Fingerprint Reader in Power Button Wedge Lock slot
Storage <sup>1,3</sup>	SSD M.2 2230 PCIe/NVMe Class 35 up to 1TB SED SSD M.2 2230 PCIe/NVMe Class 35 256GB	Dimensions & Weight <sup>1,15</sup>	Width: 340.2mm / 13.39" Height: 8.23mm / .32" (front) /13.99mm / .55" (rear) Depth: 215.8mm / 8.49" Starting weight: 3.1lbs / 1.4kg (Laptop)   3.3lbs 1.5kg (2-in-1)
Security <sup>1</sup>	TPM 2.0 FIPS-140-2 Certified / TCG Certified Optional Windows Hello compliant fingerprint reader in power button Optional Security Hardware Authentication Bundles 1: Touch Fingerprint Reader (in Power Button) with Control Vault 3.0 Advanced Authentication with FIPS 140-2 Level 3 Certification 2: Contacted Smart Card and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification 3: Touch Fingerprint Reader (in Power Button), Contacted Smart Card, and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification 4: Touch Fingerprint Reader in Power Button, Contacted Smart Card, Contactless Smart Card, NFC, and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification Optional Face IR camera (Windows Hello compliant) with ExpressSign-in (Proximity Sensor) Dell Client Command Suite Dell BIOS Verification Optional Dell Endpoint Security and Management Software VMware Carbon Black Endpoint Standard VMware Carbon Black Endpoint Standard + Secureworks Threat Detection and Response Dell Encryption Enterprise Dell Encryption Personal Carbonite VMware Workspace ONE Absolute® Endpoint Visibility and Control Netskope Dell Supply Chain Defense		

# Features & technical specifications

## LATITUDE 9510

Feature	Technical Specifications
<b>Regulatory and Environmental Compliance<sup>1</sup></b>	Regulatory Model: P94F (Laptop) P95F (2-in-1) Regulatory Type: P94F001 (Laptop) P95F001 (2-in-1) ENERGY STAR EPEAT Registered. For specific country participation and rating, please see <a href="http://www.epeat.net">www.epeat.net</a> Halogen-Free/Arsenic-Free BFR/PVC free (not including PSU) <sup>9</sup>
<b>Input<sup>1</sup></b>	10-Finger Touch Display Glass Microsoft® Precision Clickpad Single Pointing Spill Resistant Backlit Keyboard Dell Premium Active Pen PN579X (optional, sold separately)
<b>Sensors</b>	Gyroscope, eCompass/Magnetometer, Accelerometer, GPS (via WWAN Card only), Ambient Light Sensor, Adaptive Thermal Performance (via Gyroscope/Accelerometer), Dell ExpressSign-In (via Proximity Sensor), Wake/Power on with lid open
<b>Systems Management<sup>1</sup></b>	Intel® vPro™ Technology coming (iAMT 12) (optional, requires Intel WiFi® Link WLAN and a vPro compatible processor), Dell Client Command Suite available ( <a href="http://dell.com/command">dell.com/command</a> ), Factory Installed Dell Client Command   Update, Dell Command   Power Manager   Dell Optimizer
<b>Warranty and Service<sup>1</sup></b>	Limited Hardware Warranty <sup>4</sup> , Standard 3 year Mail-in Service after Remote Diagnosis <sup>11</sup> , optional 3, 4 and 5 year hardware warranty extensions, and 3-5 year Dell ProSupport contracts available <sup>2</sup>
<b>Peripheral Ecosystem<sup>1</sup></b>	Powerful accessories designed and tested for Latitude 9510 enable seamless productivity for On-the-Go Professionals, wherever work takes them.

1 Offering may vary by country and by configuration

2 A 64-bit operating system is required to support 4GB or more of system memory.

3 GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

4 Limited Hardware Warranty: For copy of Limited Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see [www.dell.com/warranty](http://www.dell.com/warranty)

5 Tap to Pay will not be supported. Tap to Login is only supported with USH SKU

6 The stated Watt Hour (Whr) is not an indication of battery life

7 Intel Rapid Storage Technology requires a HDD, mSATA, or an SSD, as primary storage device. See OS requirements

8 Wireless antenna and module available only at time of system purchase

9 Dell Latitude 7400 2-in-1 are brominated flame retardant free (BFR-free) and polyvinyl chloride free (PVC-free); meeting the definition of BFR-/PVC-free as set forth in the iNEMI Position Statement on the 'Definition of Low-Halogen Electronics (BFR-/CFR-/PVC-free)'. Plastic parts contain less than 1,000 ppm (0.1%) of bromine (if the Br source is from BFRs) and less than 1,000 ppm (0.1%) of chlorine (if the Cl source is from CFRs or PVC or PVC copolymers). All printed circuit board (PCB) and substrate laminates contain bromine/chlorine total less than 1,500 ppm (0.15%) with a maximum chlorine of 900 ppm (0.09%) and maximum bromine being 900 ppm (0.09%).

10 Mobile Broadband Subject to service provider's broadband subscription and coverage area; additional charges apply.

11 Onsite Service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty ([www.dell.com/warranty](http://www.dell.com/warranty)) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.

12 Dell Services: Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/servicesdescriptions](http://www.dell.com/servicesdescriptions).

13 GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors.

14 Miracast Wireless Technology: Requires a compatible media adapter (sold separately and can be integrated into the display) and an HDMI-enabled display.

15 Weights vary depending on configuration and manufacturing variability.

16 Available in US only

17 Based on Dell analysis, November 2019, using publicly available data.

18 Battery life is based on testing of Latitude 9510 with Intel Core i5-10310U, 16GB RAM, 256 GB SSD, 88Whr battery and FHD non-touch display, using the Mobile Mark 2014 benchmark test available at [www.bapco.com](http://www.bapco.com). Test results are for comparative purposes only. Actual battery life may be significantly less than the test results and varies depending on product configuration and use, software, operating conditions, power management settings and other factors. Maximum battery life will decrease with time.

19 Nearly 3X Faster: 802.11ax 2x2 160 MHz enables 2402 Mbps maximum theoretical data rates, ~3X (2.8X) faster than standard 802.11ac 2x2 80 MHz (867 Mbps) as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers. WPA3 Wi-Fi Security Features: The Wi-Fi Alliance industry consortium will certify Wi-Fi 6 products for compliance with the IEEE 802.11ax standard, and will require WPA3 security certification as a pre-requisite to ensure the latest in Wi-Fi security features. WPA3 Simplified Passwords: WPA3 uses Simultaneous Authentication of Equals (SAE) to replace the Pre-Shared Key (PSK) exchange protocol used by WPA2. SAE more securely handles initial key exchange and uses forward secrecy, which makes it more resistant to offline decryption attacks and provides stronger password-based authentication. WPA3 Enhanced Protection: Additional network protection comes from the equivalent of 192-bit cryptographic strength across an 802.11ax network and is superior to the 128-bit AES encryption utilized with WPA2. Claim D is based on industry standard WAP3 certification which parameters are broadly available <https://www.wi-fi.org/discover-wi-fi/security>

20 5G LTE option on 2-in-1 coming in fall of 2020. Mobile Broadband/LTE: Subject to service provider's broadband subscription and coverage area; speeds may vary. Additional charges will apply. Contact your service provider for details.

21 Based on Dell internal analysis, November 2019. The smallest refers to the total surface area.

22 Based on Dell internal analysis, February 2019. Within Dell Power Manager software, selecting either the Default mode of Adaptive Charge or ExpressCharge™ can recharge system battery from 0% up to 35% within 20 minutes when system is powered-off and battery temperature is between 16-45 degrees C. With ExpressCharge™ mode enabled, the system battery can then continue charging up to 80% within 60 minutes. After charging has reached 80% capacity, charging speed will return to normal speed. Recommended for use with the provided Dell power adapter; not recommended with a smaller capacity power adapter. Charging time may vary +/-10% due to system tolerance.<sup>23</sup> Based on Dell internal analysis, February 2019. When used with Dell systems with ExpressCharge. Within Dell Power Manager software, selecting ExpressCharge™ can recharge system battery from 0% up to 80% within 60 minutes. After charging has reached 80% capacity, charging speed will return to normal speed. Recommended for use with the provided Dell power adapter; not recommended with a smaller capacity power adapter. Charging time may vary +/-10% due to system tolerance.

24 Based on Dell internal analysis of battery life usage model calculations and 3 million keystrokes per year, Nov 2019. Results vary depending on usage and computing conditions.

25 Based on Intel's design verification process, April 2020.

26 ExpressResponse must be enabled in the Applications feature. DO learns how user uses the selected application(s) over several hours. Based on Dell testing using Sysmark 2018 benchmark running productivity applications, March 2020. Improvement will vary based on product configuration, use, application and other factors. ExpressCharge with Dell Optimizer (DO) requires 14 days to learn the user's behavior, then dynamically applies appropriate battery settings. DO Adaptive Battery setting must be enabled in the Power feature settings labeled "Adaptive Battery Performance". Improvement will vary based on product configuration, use, software, operating conditions, power management settings and other factors. Improvements may decrease over time. System performance may be impacted. ExpressSign-in: Available on Latitude 9000 and select 7000 series; Precision mobile workstations 7000 and select 5000 series. See product details for availability

27 EPEAT Gold registered in the U.S. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

28 Based on a March 2020 Dell testing using Sysmark 2018 benchmark running MS Word/Excel/Powerpoint and Adobe Photoshop/Lightroom in a Latitude 9510 equipped with Intel i5-10310U, 16GB RAM, Intel UHD GPU graphics and 512GB NVMe. Dell Optimizer ExpressResponse must be enabled in the Applications feature. DO learns how user uses the selected application(s) over several hours. Improvement will vary based on product configuration, use, application and other factors.

29 Based on testing conducted on Latitude 9510. ExpressCharge with Dell Optimizer (DO) requires 14 days to learn the user's behavior, then dynamically applies appropriate battery settings. DO Adaptive Battery setting must be enabled in the Power feature settings labeled "Adaptive Battery Performance". Improvement will vary based on product configuration, use, software, operating conditions, power management settings and other factors. Improvements may decrease over time. System performance may be impacted