




Dell Latitude 5520/E5520/E5520m Owner's Manual

Regulatory Model: P16G
Regulatory Type: P16G001



Napomene, oprez i upozorenja

-  **NAPOMENA:** NAPOMENA ukazuje na važne informacije koje će vam pomoći da iskoristite računar na bolji način.
-  **OPREZ:** OPREZ ukazuje na potencijalno oštećenje hardvera ili gubitak podataka u slučaju nepoštovanja uputstava.
-  **UPOZORENJE:** UPOZORENJE ukazuje na potencijalno oštećenje imovine, telesne povrede i smrtni ishod.

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Rad na računaru

Before Working Inside Your Computer


Use the following safety guidelines to help protect your computer from potential damage and to help to ensure your personal safety. Unless otherwise noted, each procedure included in this document assumes that the following conditions exist:


- You have performed the steps in Working on Your Computer.
- You have read the safety information that shipped with your computer.
- A component can be replaced or--if purchased separately--installed by performing the removal procedure in reverse order.


 **WARNING:** Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

 **CAUTION:** Many repairs may only be done by a certified service technician. You should only perform troubleshooting and simple repairs as authorized in your product documentation, or as directed by the online or telephone service and support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. Read and follow the safety instructions that came with the product.

 **CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface, such as a connector on the back of the computer.

 **CAUTION:** Handle components and cards with care. Do not touch the components or contacts on a card. Hold a card by its edges or by its metal mounting bracket. Hold a component such as a processor by its edges, not by its pins.

 **CAUTION:** When you disconnect a cable, pull on its connector or on its pull-tab, not on the cable itself. Some cables have connectors with locking tabs; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before you connect a cable, ensure that both connectors are correctly oriented and aligned.

 **NOTE:** The color of your computer and certain components may appear differently than shown in this document.


To avoid damaging your computer, perform the following steps before you begin working inside the computer.

1. Ensure that your work surface is flat and clean to prevent the computer cover from being scratched.
2. Turn off your computer (see [Turning Off Your Computer](#)).
3. If the computer is connected to a docking device (docked) such as the optional Media Base or Battery Slice, undock it.

 **CAUTION:** To disconnect a network cable, first unplug the cable from your computer and then unplug the cable from the network device.

4. Disconnect all network cables from the computer.
5. Disconnect your computer and all attached devices from their electrical outlets.

6. Close the display and turn the computer upside-down on a flat work surface.

 **NOTE:** To avoid damaging the system board, you must remove the main battery before you service the computer.


7. Remove the main battery (see [Battery](#)).

8. Turn the computer top-side up.

9. Open the display.

10. Press the power button to ground the system board.

 **CAUTION:** To guard against electrical shock, always unplug your computer from the electrical outlet before opening the display.

 **CAUTION:** Before touching anything inside your computer, ground yourself by touching an unpainted metal surface, such as the metal at the back of the computer. While you work, periodically touch an unpainted metal surface to dissipate static electricity, which could harm internal components.

11. Remove any installed ExpressCards or Smart Cards from the appropriate slots.

Preporučeni alati

Za procedure u ovom dokumentu mogu se zahtevati sledeći alati:


- Mali odvrtlač sa ravni vrhom
- #0 Phillips odvrtlač
- #1 Phillips odvrtlač
- Malo plastično šilo
- CD sa programom za ažuriranje flešovanja BIOS-a

Isključivanje računara

 **OPREZ:** Da bi se izbegao gubitak podataka, sačuvajte i zatvorite sve otvorene datoteke i zatvorite sve otvorene programe pre nego što isključite računar.

1. Isključite operativni sistem:

- Za Windows Vista :

Kliknite na **Start** , zatim kliknite na strelicu u donjem desnom uglu **Start** menija, kao što je dole prikazano, a zatim kliknite na **Isključenje**.




- Za Windows XP:

Kliknite na **Start** → **Isključi računar** → **Isključi**. Računar se isključuje nakon završetka procesa isključivanja operativnog sistema.

2. Uverite se da su računar i svi povezani uređaji isključeni. Ako se računar i povezani uređaji nisu automatski isključili kada ste isključili operativni sistem, pritisnite i zadržite taster za napajanje otprilike 4 sekundi da biste ih isključili.

Posle rada u unutrašnjosti računara

Nakon što završite bilo koju proceduru zamene, a pre nego što uključite računar, uverite se da su svi eksterni uređaji, kartice i kablovi povezani.

 **OPREZ: Da bi se izbeglo oštećenje računara, koristite baterije dizajnirane samo za ovaj tip Dell računara. Ne koristite baterije dizajnirane za druge Dell računare.**

1. Povežite eksterne uređaje, kao što je replikator portova, rezervna baterija ili medijska baza, i zamenite kartice, kao što je ExpressCard.
2. Povežite telefonske ili mrežne kablove sa računarom.

 **OPREZ: Da biste povezali mrežni kabl, prvo priključite kabl u mrežni uređaj a zatim ga priključite u računar.**

3. Zamenite bateriju.
4. Priključite računar i sve povezane uređaje u odgovarajuće električne utičnice.
5. Uključite računar.

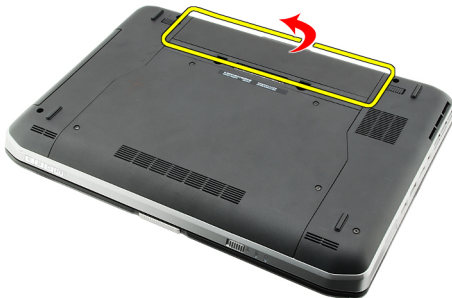
Baterija

Removing the Battery

1. Follow the procedures in [Before Working On Your Computer.](#)
2. Slide the release latches to unlock the battery.



3. Remove the battery from the computer.



Related Links

[Installing the Battery](#)

Installing the Battery

1. Slide the battery back into the computer.
The release latches automatically click into the lock position.
2. Follow the procedures in [After Working Inside Your Computer.](#)

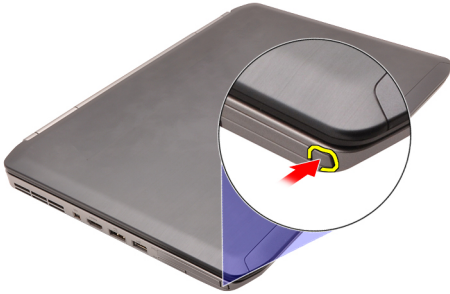
Related Links

[Removing the Battery](#)

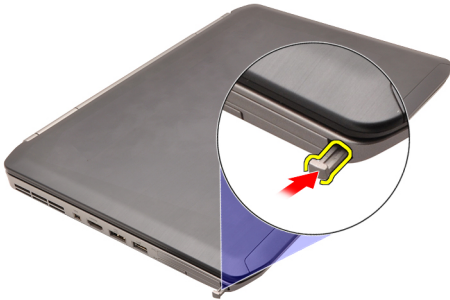
PC Card

Removing the PC Card

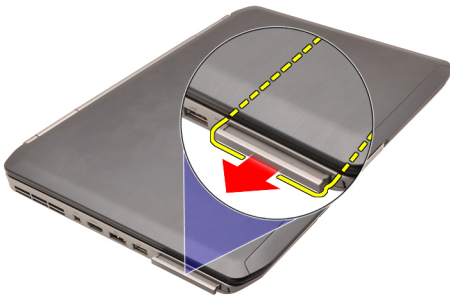
1. Follow the procedures in [Before Working On Your Computer.](#)
2. Press in on the PC latch to release the latch.



3. Press in on the PC latch to release the PC card.



4. Slide the PC card out of the computer.



Related Links

[Installing the PC Card](#)

Installing the PC Card

1. Push the PC latch to lock it.
2. Push the PC card to its slot until it clicks.
3. Follow the procedures in [After Working Inside Your Computer.](#)

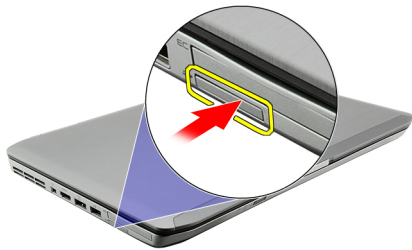
Related Links

[Removing the PC Card](#)

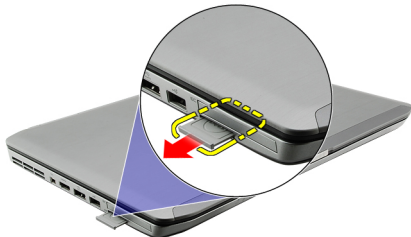
Secure Digital (SD) kartica

Removing The Secure Digital (SD) Card

1. Follow the procedures in [Before Working On Your Computer.](#)
2. Push in on the SD card.



3. Slide the SD card out of the computer.



Related Links

[Installing The Secure Digital \(SD\) Card](#)

Installing The Secure Digital (SD) Card

1. Slide the SD card into its slot until it clicks into place.
2. Follow the procedures in [After Working Inside Your Computer.](#)

Related Links

[Removing The Secure Digital \(SD\) Card](#)

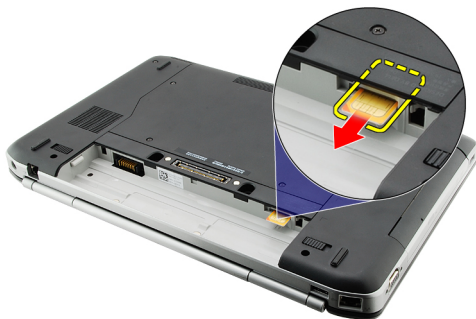
Kartica za modul pretplatničkog identiteta (SIM)

Removing the Subscriber Identity Module (SIM) Card

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Press and release the SIM card located on the battery wall.



4. Slide the SIM card from the computer.



Related Links

[Installing the Subscriber Identity Module \(SIM\) Card](#)

Installing the Subscriber Identity Module (SIM) Card

1. Insert the SIM card into the slot.
2. Replace the [battery](#).
3. Follow the procedures in [After Working Inside Your Computer](#).

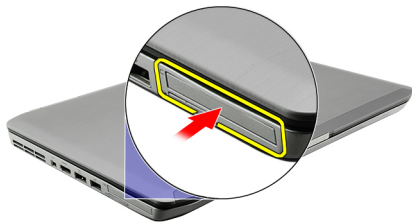
Related Links

[Removing the Subscriber Identity Module \(SIM\) Card](#)

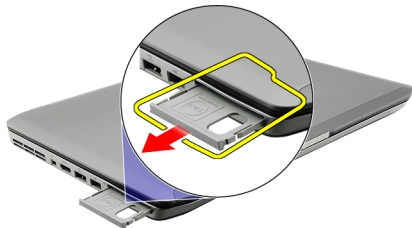
ExpressCard

Removing the ExpressCard

1. Follow the procedures in [Before Working On Your Computer.](#)
2. Push in on the ExpressCard.



3. Slide the ExpressCard out of the computer.



Related Links

[Installing the ExpressCard](#)

Installing the ExpressCard

1. Insert the ExpressCard into the slot until it clicks into place.
2. Follow the procedures in [After Working Inside Your Computer.](#)

Related Links

[Removing the ExpressCard](#)

Zadnja ploča

Removing the Back Panel

1. Follow the procedures in [Before Working On Your Computer.](#)
2. Remove the [battery.](#)
3. Remove the screws that secure the back panel.



4. Slide and remove the back panel toward the front of the computer .



Related Links

[Installing the Back Panel](#)

Installing the Back Panel

1. Slide the back panel towards the back of the computer.
2. Tighten the screws to secure the back panel.
3. Replace the [battery.](#)
4. Follow the procedures in [After Working Inside Your Computer.](#)

Related Links

[Removing the Back Panel](#)

Okvir tastature

Removing the Keyboard Trim

1. Follow the procedures in [Before Working On Your Computer](#)
2. Remove the [battery](#).
3. Pry up the keyboard trim from the bottom edge.



4. Pry up the keyboard trim from the top edge.



5. Remove the keyboard trim from the computer.



Related Links

[Installing the Keyboard Trim](#)

Installing the Keyboard Trim

1. Align the keyboard trim with the tabs on top of the palm rest.
2. Press the keyboard trim down along the edges until it clicks into place.
3. Replace the [battery](#).
4. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Keyboard Trim](#)

Tastatura

Removing the Keyboard

1. Follow the procedures in [Before Working On Your Computer](#)
2. Remove the [battery](#).
3. Remove the [keyboard trim](#).
4. Flip the computer and remove the screw that secures the keyboard to the back of the computer.



5. Flip the computer and remove the screws that secure the keyboard to the front of the computer.



6. Pry the keyboard from its edges and turn the keyboard over.



7. Remove the mylar tape that secures the keyboard data cable to the back of the keyboard.



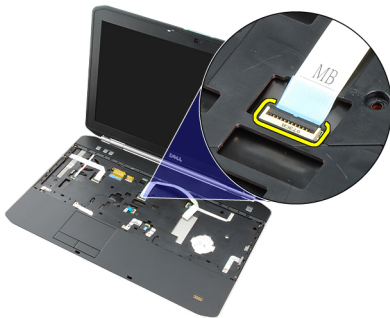
8. Disconnect the keyboard data cable.



9. Flip the keyboard.



10. Disconnect the keyboard data cable and remove it from the computer.



Related Links

[Installing the Keyboard](#)

Installing the Keyboard

1. Connect the keyboard-data cable to the system board.
2. Connect the keyboard-data cable to the back of the keyboard.
3. Replace the tape to secure the keyboard-data cable to the back of the keyboard.
4. Replace the keyboard on the palm rest to align the screw holes.
5. Tighten the keyboard screws.
6. Flip the computer and tighten the screw on the back of the computer.
7. Replace the [keyboard trim](#).
8. Replace the [battery](#).
9. Follow the procedures in [After Working Inside Your Computer](#).

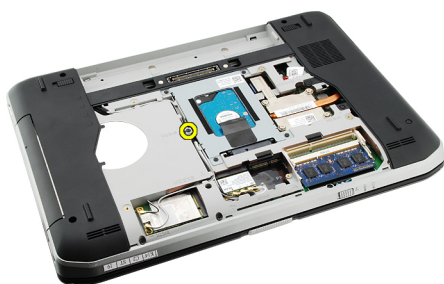
Related Links

[Removing the Keyboard](#)

Optički disk

Removing the Optical Drive

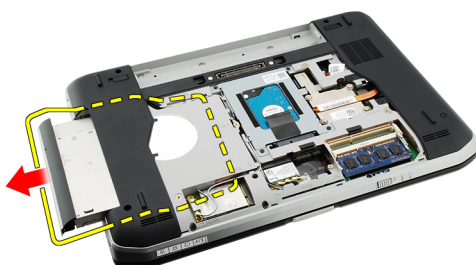
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the screw that secures the optical drive to the computer.



5. Push the screw tab away from the computer to release the optical drive from the drive bay.



6. Remove the optical drive from the computer.



Related Links

[Installing the Optical Drive](#)

Installing the Optical Drive

1. Slide the optical drive into the drive bay on the right side of the computer.
2. Tighten the screw on the back of the computer to secure the optical drive.
3. Replace the [back panel](#).
4. Replace the [battery](#).
5. Follow the procedures in [After Working Inside Your Computer](#).

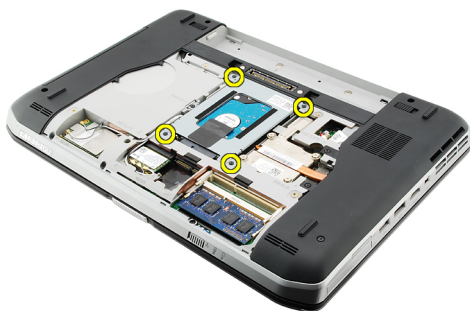
Related Links

[Removing the Optical Drive](#)

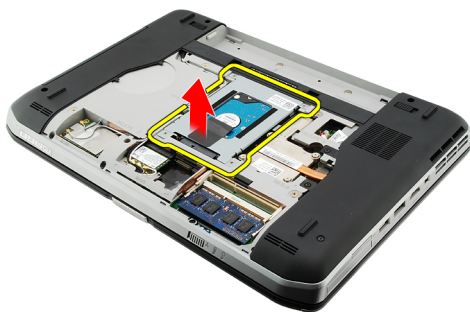
Čvrsti disk

Removing the Hard Drive

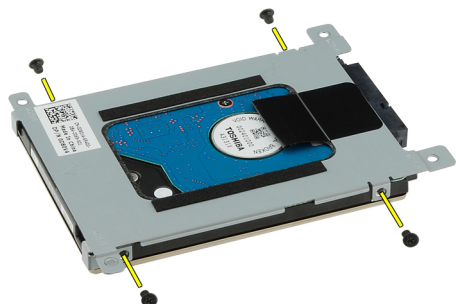
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the screws that secure the hard-drive bracket to the computer.



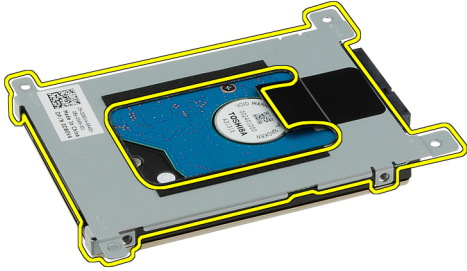
5. Use the tab to pull the hard-drive bracket upward and remove it from the computer.



6. Remove the hard-drive bracket screws.



7. Disconnect the bracket from the hard drive.



8. Disconnect the hard-drive connector from the hard drive.



Related Links

[Installing the Hard Drive Assembly](#)

Installing the Hard Drive

1. Reconnect the hard-drive connector to the hard drive.
2. Attach the hard-drive bracket to the hard drive.
3. Tighten the hard-drive bracket screws to ensure that the bracket is correctly aligned and holding the hard drive.
4. Slide the hard drive into the bay towards the connector on the system board.
5. Tighten the screws to secure the hard drive.
6. Replace the [back panel](#).
7. Replace the [battery](#).
8. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Hard Drive Assembly](#)

Kartica za bežičnu lokalnu mrežu (WLAN)

Removing the Wireless Local Area Network (WLAN) Card

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Disconnect the antenna cables from the WLAN card.



5. Remove the screw that secures the WLAN card to system board.



6. Remove the WLAN card.



Related Links

[Installing the Wireless Local Area Network \(WLAN\) Card](#)

Installing The Wireless Local Area Network (WLAN) Card

1. Slide the WLAN card into its slot.
2. Tighten the screw to secure the WLAN card to the computer.
3. Connect the antenna cables according to the color code on the WLAN card.
4. Replace the [back panel](#).
5. Replace the [battery](#).
6. Follow the procedures in [After Working Inside Your Computer](#).

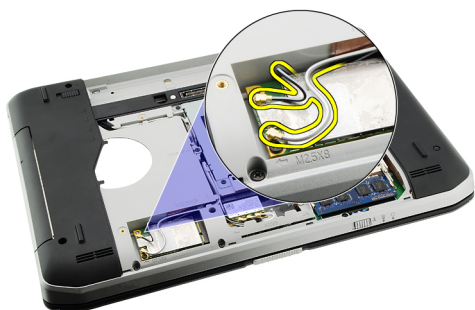
Related Links

[Removing the Wireless Local Area Network \(WLAN\) Card](#)

Kartica za bežičnu mrežu šireg geografskog područja (WWAN)

Removing the Wireless Wide Area Network (WWAN) Card

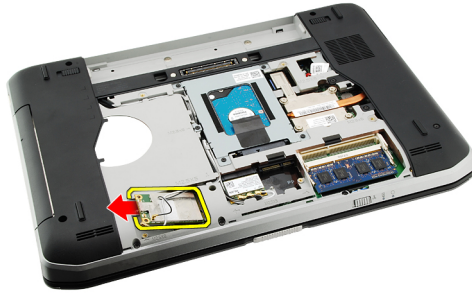
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Disconnect the antenna cables from the WWAN card.



5. Remove the screw that secures the WWAN card to the system board.



6. Remove the WWAN card.



Related Links

[Installing the Wireless Wide Area Network \(WWAN\) card](#)

Installing The Wireless Wide Area Network (WWAN) Card

1. Slide the WWAN card into its slot.
2. Tighten the screw to secure the WWAN card to the computer.
3. Connect the antenna cables according to the color code on the WWAN card.
4. Replace the [back panel](#).
5. Replace the [battery](#).
6. Follow the procedures in [After Working Inside Your Computer](#).

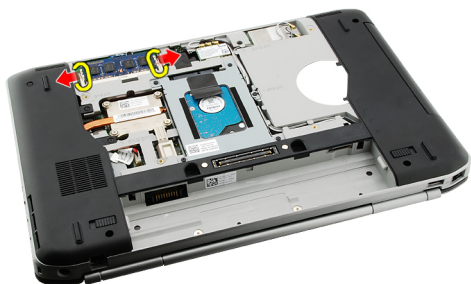
Related Links

[Removing the Wireless Wide Area Network \(WWAN\) Card](#)

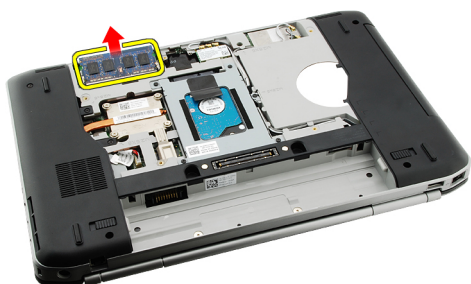
Memorija

Removing the Memory Module

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Pry the retention clips away from the memory module.



5. Remove the memory module from the computer.



Related Links

[Installing The Memory Module](#)

Installing the Memory Module

1. Insert the memory module into the slot in the computer.
2. Press down the memory module until the retention clips secure the memory module.
3. Replace the [back panel](#).
4. Replace the [battery](#).
5. Follow the procedures in [After Working Inside Your Computer](#).

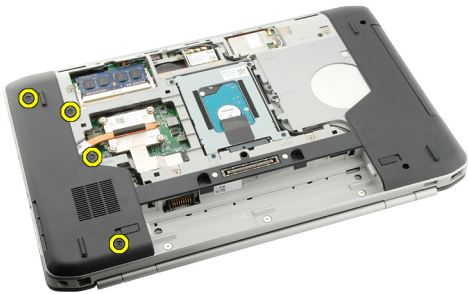
Related Links

[Removing the Memory Module](#)

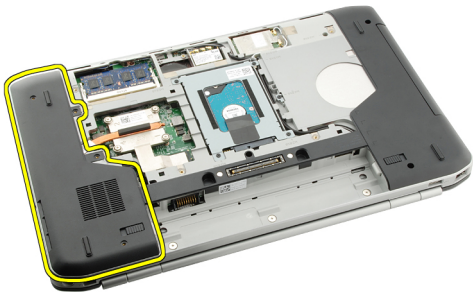
CPU Door

Removing the CPU Door

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the screws that secure the CPU door to the computer.



5. Remove the CPU door.



Related Links

[Installing the CPU Door](#)

Installing the CPU Door

1. Slide the CPU door downwards and towards the back of the computer.
2. Tighten the screws to secure the CPU door.
3. Replace the [back panel](#).
4. Replace the [battery](#).
5. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the CPU Door](#)

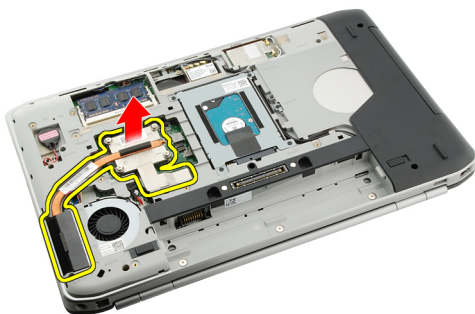
Rashladni element

Removing the Heat Sink

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [CPU door](#).
5. Loosen the screws on the heat sink.



6. Lift the heat sink and remove it from the computer.



Related Links

[Installing the Heat Sink](#)

Installing the Heat Sink

1. Tighten the screws as per the numerical sequence on the heat sink module.
2. Replace the [CPU door](#).
3. Replace the [back panel](#).
4. Replace the [battery](#).
5. Follow the procedures in [After Working Inside Your Computer](#).

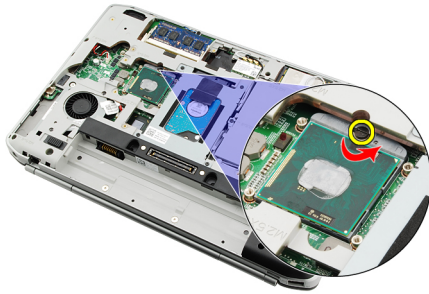
Related Links

[Removing the Heat Sink](#)

Processor

Removing the Processor

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#)
4. Remove the [CPU door](#).
5. Remove the [heat sink](#).
6. Rotate the processor-cam screw in counter-clockwise direction.



7. Remove the processor.



Related Links

[Installing the Processor](#)

Installing the Processor

1. Insert the processor into the processor socket.
Ensure that the processor is seated securely.
2. Replace the [heat sink](#).
3. Replace the [CPU door](#).

4. Replace the [back panel](#).
5. Replace the [battery](#).
6. Follow the procedures in [After Working Inside Your Computer](#).

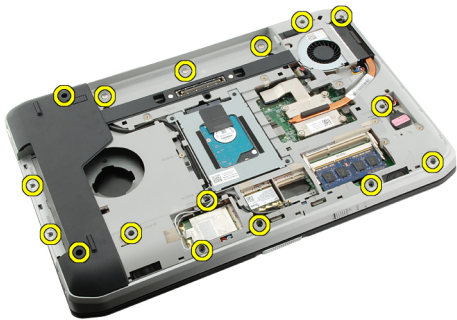
Related Links

[Removing the Processor](#)

Oslonac za dlan

Removing the Palm Rest

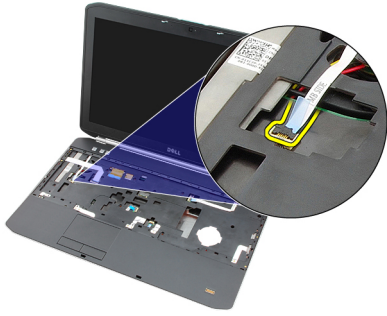
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [CPU door](#).
8. Remove the screws from the bottom of the computer.



9. Flip the computer and remove the screws on the palm rest.



10. Disconnect the media button cable.



11. Disconnect the power LED cable.



12. Disconnect the touchpad cable.



13. Disconnect the power-button cable.



14. Disconnect the fingerprint cable.



15. Lift up the right edge of the palm rest assembly.



16. Release the tabs on the left edge of the palm rest assembly and remove the palm rest.



Related Links

[Installing the Palm Rest](#)

Installing the Palm Rest

1. From the left edge of the palm rest, press the palm rest downwards on the computer on all the edges.
2. Press down on all edges to ensure that the tabs are engaged.
3. Connect all the cables to the palm rest.
4. Tighten the screws to secure the palm rest.
5. Flip the computer over and tighten the screws to secure the palm rest.
6. Replace the [CPU door](#).
7. Replace the [keyboard](#).
8. Replace the [keyboard trim](#).
9. Replace the [optical drive](#).

10. Replace the [back panel](#).
11. Replace the [battery](#).
12. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Palm Rest](#)

ExpressCard/Smart Card/PCMCIA Module

Removing the ExpressCard/Smart Card/PCMCIA Module

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [CPU door](#).
8. Remove the [palm rest](#).
9. Remove the screws that secure the ExpressCard/Smart Card/PCMCIA module to the computer.



10. Remove the ExpressCard/Smart Card/PCMCIA module.



Related Links

[Installing the ExpressCard/Smart Card/PCMCIA module](#)

Installing the ExpressCard/Smart Card/PCMCIA Module

1. Attach the connector on the back of the ExpressCard/Smart Card/PCMCIA module to the marking on the connector on the system board.
2. Tighten the screws to secure the ExpressCard/Smart Card/PCMCIA module.
3. Replace the [palm rest](#).
4. Replace the [CPU door](#).
5. Replace the [keyboard trim](#).
6. Replace the [keyboard](#).
7. Replace the [optical drive](#).
8. Replace the [back panel](#).
9. Replace the [battery](#).
10. Follow the procedures in [After Working Inside Your Computer](#).

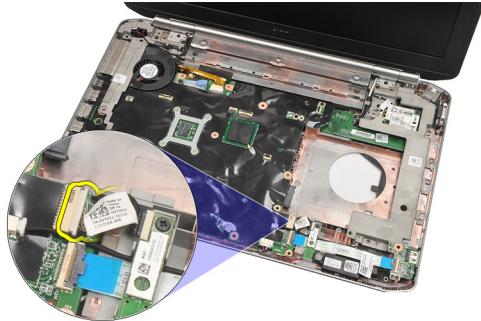
Related Links

[Removing the ExpressCard/Smart Card/PCMCIA Module](#)

Bluetooth kartica

Removing the Bluetooth Card

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [CPU door](#).
8. Remove the [palm rest](#).
9. Disconnect the Bluetooth cable from the system board.



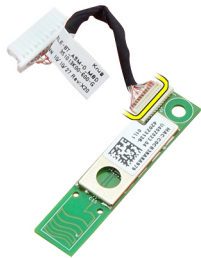
10. Remove the screw that secures the Bluetooth card.



11. Remove the Bluetooth card.



12. Disconnect the Bluetooth cable from the Bluetooth card.



Related Links

[Installing the Bluetooth Card](#)

Installing the Bluetooth Card

1. Connect the Bluetooth card cable to the card.
2. Place the Bluetooth card in the computer.
3. Tighten the screw to secure the Bluetooth card in the computer.
4. Connect the Bluetooth cable to the system board.
5. Replace the [palm rest](#).
6. Replace the [CPU door](#).
7. Replace the [keyboard trim](#).
8. Replace the [keyboard](#).
9. Replace the [optical drive](#).
10. Replace the [back panel](#).
11. Replace the [battery](#).
12. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Bluetooth Card](#)

Sklop ekrana

Removing the Display Assembly

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [hard drive](#).
8. Remove the [CPU door](#).
9. Remove the [palm rest](#).
10. Disconnect the antenna cables.



11. Remove the antenna cables from the routing channels.



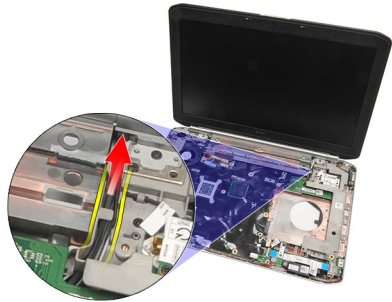
12. Disconnect the low-voltage differential signaling (LVDS) cable.



13. Disconnect the camera cable.



14. Pull the antenna cables through the opening at the top of the computer.



15. Remove the screws that secure the display assembly to the computer.



16. Remove the display assembly.



Related Links

[Installing the Display Assembly](#)

Installing the Display Assembly

1. Attach the display assembly to the base of the computer.
2. Tighten the screws to secure the display assembly.
3. Connect the low-signal differential signaling (LVDS) cable to the system board.
4. Connect the camera cable to system board.
5. Push the antenna through the opening to the bottom of the computer.
6. Secure the antenna cable to the routing channels.
7. Connect the antenna to the WLAN/WLAN cards.
8. Replace the [palm rest](#).
9. Replace the [CPU door](#)
10. Replace the [keyboard](#).
11. Replace the [keyboard trim](#).
12. Replace the [optical drive](#).
13. Replace the [hard drive](#).
14. Replace the [back panel](#).
15. Replace the [battery](#).
16. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Display Assembly](#)

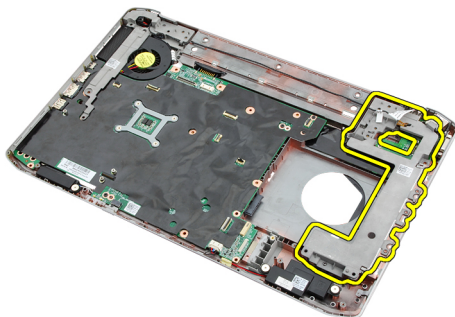
Brackets

Removing the Support Brackets

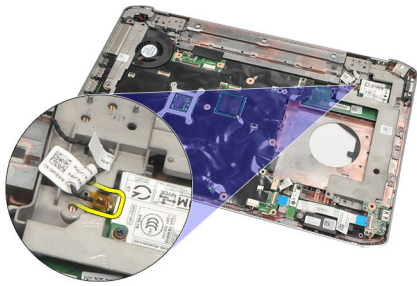
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [CPU door](#).
8. Remove the [palm rest](#).
9. Remove the [display assembly](#).
10. Remove the [audio board](#).
11. Remove the [bluetooth card](#).
12. Remove the [modem card](#).
13. Disengage the modem cable and remove the screw that secures the right support bracket.



14. Remove the right-support bracket.



15. Disconnect the modem cable from the modem.



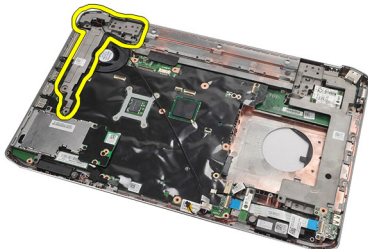
16. Remove the modem cable from the routing channel.



17. Remove the screws that secure the left-support bracket.



18. Slide the left-support bracket along the modem cable and remove it from the computer.



Related Links

[Installing the Support Brackets](#)

Installing the Support Brackets

1. Slide the modem cable through the opening of the left-support bracket.
2. Place the left-support bracket in the original position.
3. Tighten the screws to secure the left-support bracket.
4. Secure the modem connector cable to its routing channel.
5. Connect the modem connector cable to the modem card.
6. Place the right-support bracket in the original position.
7. Tighten the screw to secure the right-support bracket.
8. Replace the [modem card](#).
9. Replace the [Bluetooth card](#).
10. Replace the [audio board](#).
11. Replace the [display assembly](#).
12. Replace the [palm rest](#).
13. Replace the [CPU door](#).
14. Replace the [keyboard trim](#).
15. Replace the [keyboard](#).
16. Replace the [optical drive](#).
17. Replace the [back panel](#).
18. Replace the [battery](#).
19. Follow the procedures in [After Working Inside Your Computer](#).

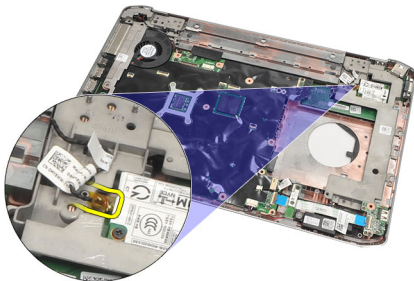
Related Links

[Removing the Support Brackets](#)

Modemska kartica

Removing the Modem Card

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [hard drive](#).
8. Remove the [CPU door](#)
9. Remove the [palm rest](#).
10. Remove the [display assembly](#).
11. Disconnect the modem cable from the modem.



12. Remove the screws that secure the modem card.



13. Lift the modem card, to disengage from the connector on the back of the card, and remove it from the computer.



Related Links

[Installing the Modem Card](#)

Installing the Modem Card

1. Attach the connector on the back of the modem card to the connector on the system board.
2. Tighten the screws to secure the modem card.
3. Connect the modem card cable.
4. Replace the [display assembly](#).
5. Replace the [palm rest](#).
6. Replace the [CPU door](#).
7. Replace the [hard drive](#).
8. Replace the [optical drive](#).
9. Replace the [keyboard](#).
10. Replace the [keyboard trim](#).
11. Replace the [back panel](#).
12. Replace the [battery](#).
13. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Modem Card](#)

Audio Board

Removing the Audio Board

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#)
7. Remove the [CPU door](#).
8. Remove the [palm rest](#)
9. Remove the [Bluetooth card](#)
10. Disconnect the audio-board cables from the system board.



11. Remove the screw that secures the audio board to the computer.



12. Remove the audio board.



Related Links

[Installing the Audio Board](#)

Installing the Audio Board

1. Place the audio board in the computer.
2. Tighten the screw to secure the audio board.
3. Connect the audio cables to the system board.
4. Replace the [bluetooth card](#).
5. Replace the [palm rest](#).
6. Replace the [CPU door](#).
7. Replace the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Replace the [optical drive](#)
10. Replace the [back panel](#).
11. Replace the [battery](#).
12. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Audio Board](#)

Matičná ploča

Removing the System Board

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [subscriber identity module \(SIM\) card](#)
4. Remove the [secure digital \(SD\) card](#)
5. Remove the [back panel](#).
6. Remove the [memory](#)
7. Remove the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Remove the [optical drive](#)
10. Remove the [hard drive](#).
11. Remove the [wireless local area network \(WLAN\)](#)
12. Remove the [wireless wide area network \(WWAN\)](#)
13. Remove the [CPU door](#).
14. Remove the [heat sink](#).
15. Remove the [processor](#).
16. Remove the [palm rest](#).
17. Remove the [ExpressCard/Smart Card/PCMCIA module](#).
18. Remove the [display assembly](#).
19. Remove the [audio board](#).
20. Remove the [Bluetooth](#).
21. Remove the [modem](#).
22. Remove the [support brackets](#).
23. Disconnect the coin-cell battery cable from the system board.



24. Disconnect the thermal fan cable.

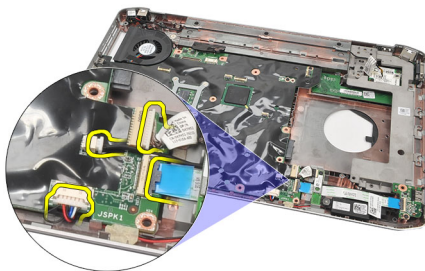


25. Remove the DC-In cable.

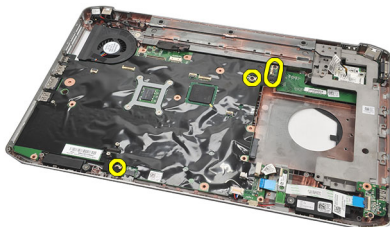


26. Disconnect the following cables:

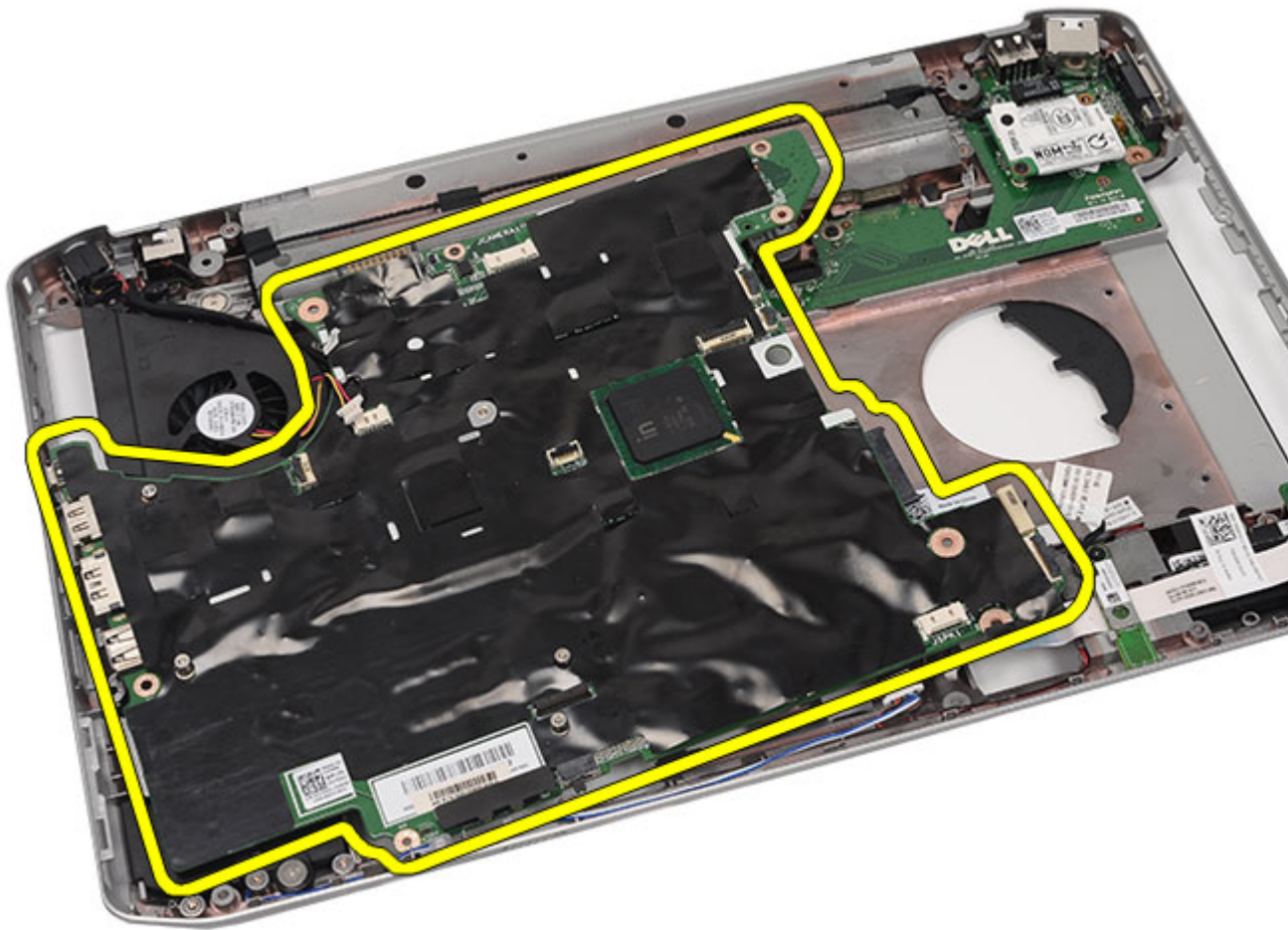
- speaker cable
- bluetooth cable
- audio board cable



27. Remove the screws that secure the system board to the computer.



28. Lift the right edge of the system board, to release it from the port connectors, and remove the system board.



Related Links

[Installing the System Board](#)

Installing the System Board

1. Align the system board to the port connectors and place the system board in the computer.
2. Engage the connector on the back of the system board to the I/O panel.
3. Tighten the screws to secure the system board.
4. Connect the following cables:
 - speaker cable
 - audio board cable
 - bluetooth cable
5. Connect the DC-In cable to the system board.
6. Connect the thermal fan cable to the system board.
7. Connect the coin-cell cable to the system board.
8. Replace the [support brackets](#).

9. Replace the [modem card](#).
10. Replace the [Bluetooth card](#).
11. Replace the [audio board](#).
12. Replace the [display assembly](#).
13. Replace the [ExpressCard/Smart Card/PCMCIA module](#).
14. Replace the [palm rest](#).
15. Replace the [processor](#).
16. Replace the [heat sink](#).
17. Replace the [CPU door](#).
18. Replace the [wireless local area network \(WLAN\)](#).
19. Replace the [wireless wide area network \(WWAN\)](#).
20. Replace the [hard drive](#).
21. Replace the [optical drive](#).
22. Replace the [keyboard](#).
23. Replace the [keyboard trim](#).
24. Replace the [memory](#).
25. Replace the [back panel](#).
26. Replace the [secure digital \(SD\) card](#).
27. Replace the [subscriber identity module \(SIM\) card](#).
28. Replace the [battery](#).
29. Follow the procedures in [After Working Inside Your Computer](#).

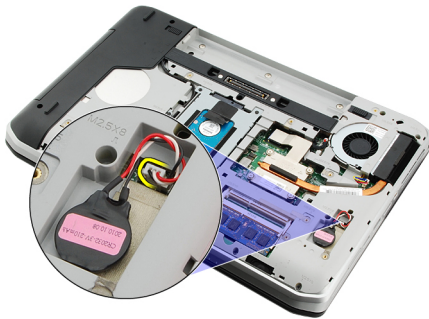
Related Links

[Removing the System Board](#)

Coin-Cell baterija

Removing the Coin-Cell Battery

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [CPU door](#).
5. Lift the coin-cell battery from the system board.



6. Pry and remove the coin-cell battery from the adhesive.



Related Links

[Installing the Coin-Cell Battery](#)

Installing the Coin-Cell Battery

1. Attach the coin-cell battery to the coin-cell compartment.
2. Connect the coin-cell battery to the system board.
3. Replace the [CPU door](#).
4. Replace the [back panel](#).
5. Replace the [battery](#).

6. Follow the procedures in [After Working Inside Your Computer](#).

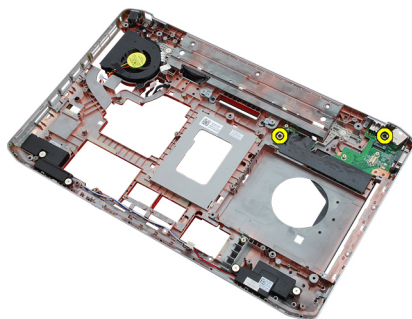
Related Links

[Removing the Coin-Cell Battery](#)

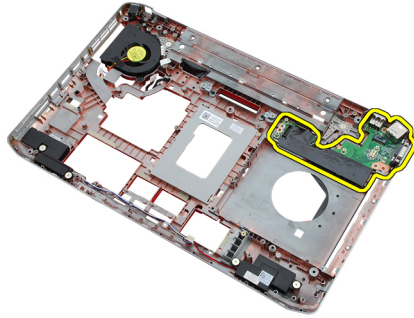
Ulazno/izlazna ploča

Removing the Input/Output (I/O) Panel

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [subscriber identity module \(SIM\) card](#)
4. Remove the [secure digital \(SD\) card](#).
5. Remove the [back panel](#).
6. Remove the [memory](#).
7. Remove the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Remove the [optical drive](#).
10. Remove the [hard drive](#).
11. Remove the [wireless wide area network \(WWAN\)](#)
12. Remove the [wireless local area network \(WLAN\)](#).
13. Remove the [CPU door](#).
14. Remove the [heat sink](#).
15. Remove the [processor](#).
16. Remove the [palm rest](#).
17. Remove the [ExpressCard/Smart Card/PCMCIA module](#).
18. Remove the [display assembly](#).
19. Remove the [audio board](#).
20. Remove the [Bluetooth card](#).
21. Remove the [modem card](#).
22. Remove the [support brackets](#).
23. Remove the [system board](#).
24. Remove the screws that secure the I/O panel.



25. Remove the I/O panel.



Related Links

[Installing the Input/Output \(I/O\) Panel](#)

Installing the Input/Output (I/O) Panel

1. Place the I/O panel in the original position.
2. Tighten the screws to secure the I/O panel.
3. Replace the [system board](#).
4. Replace the [support brackets](#).
5. Replace the [modem card](#).
6. Replace the [bluetooth card](#).
7. Replace the [audio board](#).
8. Replace the [display assembly](#).
9. Replace the [ExpressCard/Smart Card/PCMCIA module](#).
10. Replace the [palm rest](#).
11. Replace the [processor](#).
12. Replace the [heat sink](#).
13. Replace the [CPU door](#).
14. Replace the [wireless local area network \(WLAN\)](#).
15. Replace the [wireless wide area network \(WWAN\)](#).
16. Replace the [hard drive](#).
17. Replace the [optical drive](#).
18. Replace the [keyboard](#).
19. Replace the [keyboard trim](#).
20. Replace the [memory](#).
21. Replace the [modem card](#).
22. Replace the [subscriber identity module \(SIM\) card](#).
23. Replace the [secure digital \(SD\) card](#).
24. Replace the [battery](#).
25. Follow the procedures in [After Working Inside Your Computer](#).

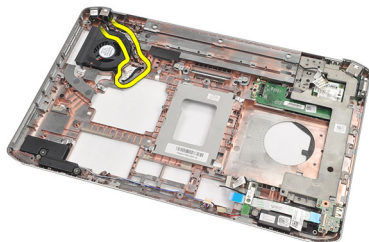
Related Links

[Removing the Input/Output \(I/O\) Panel](#)

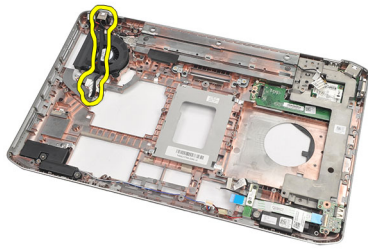
Konektor za napajanje

Removing the Power Connector

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [subscriber identity module \(SIM\) card](#)
4. Remove the [secure digital \(SD\) card](#).
5. Remove the [back panel](#).
6. Remove the [memory](#).
7. Remove the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Remove the [optical drive](#).
10. Remove the [hard drive](#).
11. Remove the [wireless local area network \(WLAN\)](#)
12. Remove the [wireless wide area network \(WWAN\)](#)
13. Remove the [CPU door](#).
14. Remove the [heat sink](#).
15. Remove the [processor](#).
16. Remove the [palm rest](#).
17. Remove the [ExpressCard/Smart Card/PCMCIA module](#).
18. Remove the [display assembly](#).
19. Remove the [audio board](#).
20. Remove the [Bluetooth card](#).
21. Remove the [modem card](#).
22. Remove the [support brackets](#).
23. Remove the [system board](#).
24. Remove the power connectors cable from the routing channel.



25. Remove the power connector.



Related Links

[Installing the Power Connector](#)

Installing the Power Connector

1. Secure the power connector to the routing channel on the processor fan.
2. Replace the [system board](#).
3. Replace the [support brackets](#).
4. Replace the [modem card](#).
5. Replace the [bluetooth card](#).
6. Replace the [audio board](#).
7. Replace the [display assembly](#).
8. Replace the [ExpressCard/Smart Card/PCMCIA module](#).
9. Remove the [palm rest](#).
10. Replace the [processor](#).
11. Replace the [heat sink](#).
12. Remove the [CPU door](#).
13. Replace the [wireless wide area network \(WWAN\)](#).
14. Replace the [wireless local area network \(WLAN\)](#).
15. Replace the [hard drive](#).
16. Replace the [optical drive](#).
17. Remove the [keyboard](#).
18. Remove the [keyboard trim](#).
19. Replace the [memory](#).
20. Replace the [back panel](#).
21. Replace the [secure digital \(SD\) card](#).
22. Replace the [subscriber identity module \(SIM\) card](#).
23. Replace the [battery](#).
24. Follow the procedures in [After Working Inside Your Computer](#).

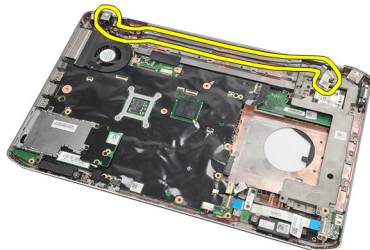
Related Links

[Removing the Power Connector](#)

Konektor modema

Removing the Modem Connector

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [hard drive](#).
8. Remove the [CPU door](#).
9. Remove the [palm rest](#).
10. Remove the [display assembly](#).
11. Remove the [support brackets](#).
12. Remove the modem connector.



Related Links

[Installing the Modem Connector](#)

Installing the Modem Connector

1. Secure the modem connector into the routing channel on the thermal fan.
2. Replace the [support brackets](#).
3. Replace the [display assembly](#).
4. Replace the [palm rest](#).
5. Replace the [CPU door](#).
6. Replace the [hard drive](#).
7. Replace the [optical drive](#).
8. Replace the [keyboard](#).

9. Replace the [keyboard](#).
10. Replace the [keyboard trim](#).
11. Replace the [battery](#).
12. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Modem Connector](#)

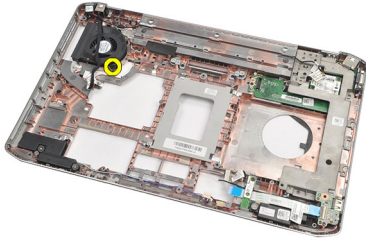
Thermal Fan

Removing the Thermal Fan

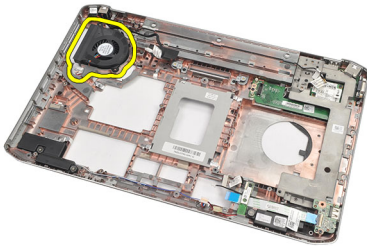
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [SIM card](#).
4. Remove the [SD card](#).
5. Remove the [back panel](#).
6. Remove the [memory](#).
7. Remove the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Remove the [optical drive](#).
10. Remove the [hard drive](#).
11. Remove the [wireless local area network \(WLAN\)](#).
12. Remove the [wireless wide area network \(WWAN\)](#).
13. Remove the [CPU door](#).
14. Remove the [heat sink](#).
15. Remove the [processor](#).
16. Remove the [palm rest](#).
17. Remove the [ExpressCard/Smart Card/PCMCIA module](#).
18. Remove the [display assembly](#).
19. Remove the [support brackets](#).
20. Remove the [system board](#).
21. Disengage the DC-In cable from the routing channel.



22. Remove the screw that secures the thermal fan.



23. Remove the thermal fan.



Related Links

[Installing the Thermal Fan](#)

Installing the Thermal Fan

1. Place the thermal fan in the original position.
2. Tighten the screw to secure the thermal fan.
3. Replace the [system board](#).
4. Replace the [support brackets](#).
5. Replace the [display assembly](#).
6. Replace the [ExpressCard/Smart Card/PCMCIA module](#).
7. Replace the [palm rest](#).
8. Replace the [processor](#).
9. Replace the [heat sink](#).
10. Replace the [CPU door](#).
11. Replace the [wireless local area network \(WLAN\)](#).
12. Replace the [wireless wide area network \(WWAN\)](#).
13. Replace the [hard drive](#)
14. Replace the [optical drive](#)
15. Replace the [keyboard](#).
16. Replace the [keyboard trim](#).
17. Replace the [memory](#).
18. Replace the [back panel](#).
19. Replace the [secure digital \(SD\) card](#).
20. Replace the [subscriber identity module \(SIM\) card](#).

21. Replace the [battery](#).
22. Follow the procedures in [After Working Inside Your Computer](#).

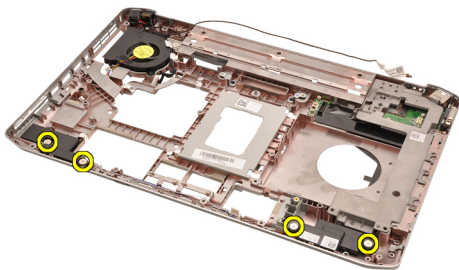
Related Links

[Removing the Thermal Fan](#)

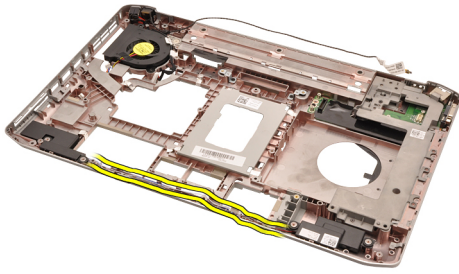
Zvučnik

Removing the Speakers

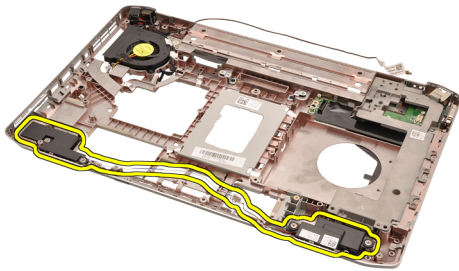
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [secure digital \(SD\) card](#).
4. Remove the [subscriber identity module \(SIM\) card](#).
5. Remove the [back panel](#).
6. Remove the [memory](#).
7. Remove the [keyboard trim](#).
8. Remove the [keyboard](#).
9. Remove the [optical drive](#).
10. Remove the [hard drive](#).
11. Remove the [wireless local area network \(WLAN\)](#).
12. Remove the [wireless wide area network \(WWAN\)](#).
13. Remove the [CPU door](#).
14. Remove the [heat sink](#).
15. Remove the [processor](#).
16. Remove the [palm rest](#).
17. Remove the [ExpressCard/Smart Card/PCMCIA module](#).
18. Remove the [display assembly](#).
19. Remove the [audio board](#).
20. Remove the [Bluetooth card](#).
21. Remove the [modem card](#).
22. Remove the [support brackets](#).
23. Remove the [system board](#).
24. Remove the screws that secure the speakers.



25. Remove the speaker cables from the routing guides.



26. Remove the speakers.



Related Links

[Installing the Speakers](#)

Installing the Speakers

1. Secure the speaker cables to the routing channels.
2. Replace the speakers in the original position.
3. Tighten the screws to secure the speakers.
4. Replace the [system board](#).
5. Replace the [support brackets](#).
6. Replace the [modem card](#).
7. Replace the [Bluetooth card](#).
8. Replace the [audio board](#).
9. Replace the [display assembly](#).
10. Replace the [ExpressCard/Smart Card/PCMCIA module](#).
11. Remove the [palm rest](#).
12. Replace the [processor](#).
13. Replace the [heat sink](#).
14. Replace the [CPU door](#).
15. Replace the [wireless local area network \(WLAN\)](#).
16. Replace the [wireless wide area network \(WWAN\)](#).
17. Replace the [hard drive](#).
18. Replace the [optical drive](#).
19. Replace the [keyboard](#).
20. Replace the [keyboard trim](#).

21. Replace the [memory](#).
22. Replace the [back panel](#).
23. Replace the [secure digital \(SD\) card](#).
24. Replace the [subscriber identity module \(SIM\) card](#).
25. Replace the [battery](#).
26. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Speakers](#)

Okno ekrana

Removing the Display Bezel

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Pry up the bottom edge of the display bezel.



4. Work your way around the sides and the top edge of the display bezel.



5. Remove the display bezel.



Related Links

[Installing the Display Bezel](#)

Installing the Display Bezel

1. Place the display bezel in the original position.
2. From the top edge, press downward on the display bezel to engage the tabs.
3. Work your way around the side and the bottom edge.
4. Replace the [battery](#).
5. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Display Bezel](#)

Ploča ekrana

Removing the Display Panel

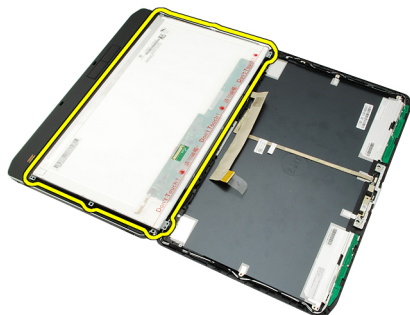
1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [display bezel](#).
4. Remove the screws that secure that back panel.



5. Flip the display panel and disconnect the low-voltage differential signalling (LVDS) cable.



6. Remove the display panel from the display assembly.



Related Links

[Installing the Display Panel](#)

Installing the Display Panel

1. Align the display brackets with the display panel.
2. Tighten the screws to secure the display panel.
3. Connect the low-voltage differential signalling (LVDS) cable to the back of the display panel.
4. Place the display panel in the display cover.
5. Tighten the screws to secure the display panel.
6. Replace the [display bezel](#).
7. Replace the [battery](#).
8. Follow the procedures in [After Working Inside Your Computer](#).

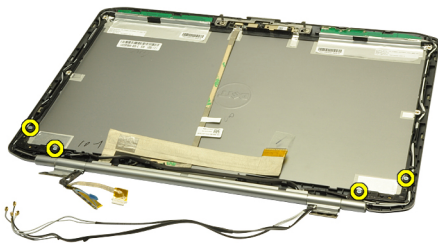
Related Links

[Removing the Display Panel](#)

Zglobovi ekrana

Removing the Display Hinges

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [back panel](#).
4. Remove the [keyboard trim](#).
5. Remove the [keyboard](#).
6. Remove the [optical drive](#).
7. Remove the [CPU door](#).
8. Remove the [palm rest](#).
9. Remove the [display assembly](#).
10. Remove the [display bezel](#).
11. Remove the [display panel](#).
12. Remove the screws that secure the display hinges.



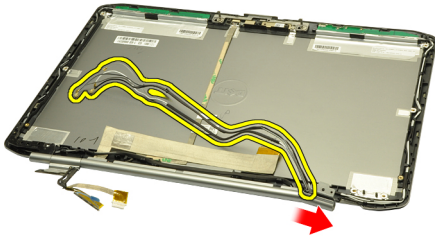
13. Remove the display-hinge caps.



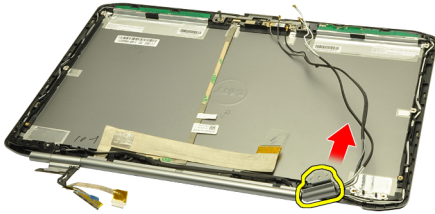
14. Rotate the right-display hinge tower to a vertical position.



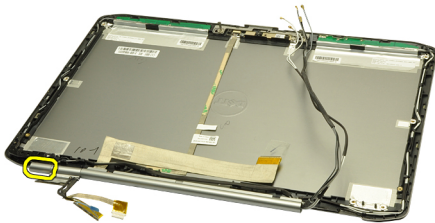
15. Pull the antenna cable routed through the right-hinge tower through the opening on the right side.



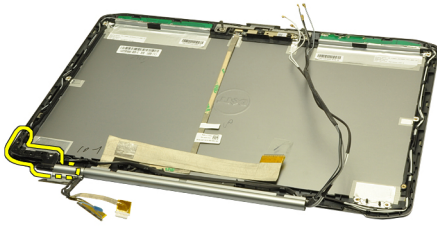
16. Pull the right-hinge tower along the antenna cables and remove it.



17. Remove the left-display hinge cap.



18. Remove the left-display hinge tower.



19. Release and remove the left-hinge tower from the cables.



Related Links

[Installing the Display Hinges](#)

Installing the Display Hinges

1. Replace the left hinge tower with the offset end facing inward.
2. Position the low-voltage differential signaling (LVDS) and camera cables through the hinge tower slits towards the centre of the display cover.
3. Insert the left-display hinge into the hinge tower.
4. Insert the left-display hinge cap on the end of the left hinge.
5. Insert the antenna cables through the right hinge tower with the hinge tower offset facing inward.
6. Position the antenna cables through the hinge tower slits towards the center of the display cover.
7. Insert the right-display hinge into the right hinge tower.
8. Insert the right-display hinge cap on the end of the right hinge.
9. Replace and tighten the screws to secure the display hinges.
10. Replace the [display panel](#).
11. Replace the [display bezel](#).
12. Replace the [display assembly](#).
13. Replace the [palm rest](#).
14. Replace the [CPU door](#).
15. Replace the [hard drive](#).
16. Replace the [optical drive](#).
17. Replace the [keyboard](#).
18. Replace the [keyboard trim](#).
19. Replace the [back panel](#).

20. Replace the [battery](#).
21. Follow the procedures in [After Working Inside Your Computer](#).

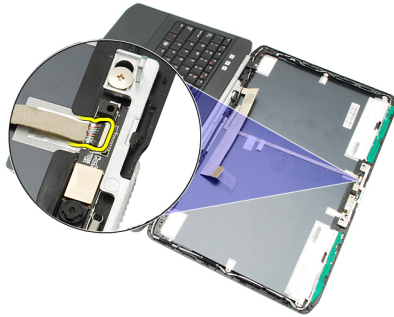
Related Links

[Removing the Display Hinges](#)

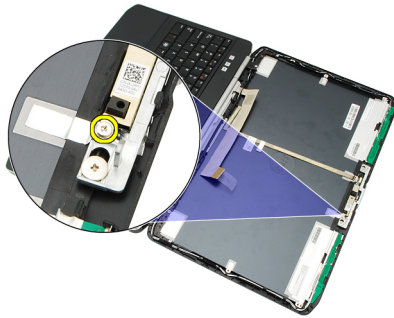
Kamera

Removing the Camera

1. Follow the procedures in [Before Working On Your Computer](#).
2. Remove the [battery](#).
3. Remove the [display bezel](#).
4. Remove the [display panel](#).
5. Disconnect the camera cable.



6. Loosen the screw that secures the camera and the microphone module.



7. Lift and remove the camera module.



Related Links

[Installing the Camera](#)

Installing the Camera


1. Place the camera module on the display cover.
2. Replace and tighten the screw to secure the camera.
3. Connect the camera cable to the camera module.
4. Replace the [display panel](#).
5. Replace the [display bezel](#).
6. Replace the [battery](#).
7. Follow the procedures in [After Working Inside Your Computer](#).

Related Links

[Removing the Camera](#)

Specifikacije

Technical Specifications

 **NOTE:** Ponuda se može razlikovati po regionima. Sledeće specifikacije su samo one koje se po zakonu moraju isporučivati sa računarom. Za dodatne informacije u vezi sa konfiguracijom računara, kliknite na **Start** → **Pomoć i podrška** i izaberite opciju za prikaz informacija o računaru.

System Information

Chipset

Latitude 5420/E5420/ 5520/E5520 Intel HM65 Express chipset

Latitude E5420m/E5520m Intel GM45 Express chipset

DRAM bus width 64-bit

Flash EPROM SPI 32 Mbits

PCIe Gen1 bus 100 MHz

Processor

Types

Latitude 5420/E5420/ 5520/E5520 Intel Core i3/i5/i7 series

Latitude E5420m/E5520m Intel Core 2 series

Intel Celeron (Socket P) series

Memory

Memory connector two SODIMM slots

Memory capacity 1 GB, 2 GB, 4 GB, or 8 GB


Memory type

Latitude 5420/E5420/5520/E5520 DDR3 SDRAM, 1333 MHz

Latitude E5420m/E5520m DDR3 SDRAM, 1066 MHz

Minimum memory 1 GB

Maximum memory 8 GB

 **NOTE:** Only 64-bit operating systems support more than 4 GB memory.

Audio	
Type	two-channel high definition audio
Controller	92HD90B
Stereo Conversion	24-bit (analog-to-digital and digital-to-analog)
Interface:	
Internal	high definition audio
External	microphone-in connector, stereo headphones/external speakers connector
Speakers	1.5 W stereo
Internal speaker amplifier	1.5 W mono
Volume controls	media buttons for Media control

Video	
Type	Intel UMA video
Data bus	integrated video
Video controller	
Latitude 5420/E5420/5520/E5520	Intel HD Graphics Intel HD Graphics 3000
Latitude E5420m/E5520m	Intel GM45
Output	15-pin video connector 19-pin HDMI connector

Communications	
Network adapter	10/100/1000 Mbps Ethernet LAN
Wireless	internal wireless local area network (WLAN), wireless wide area network (WWAN), and Bluetooth wireless support

Ports and Connectors	
Audio	microphone connector, stereo headphone/speakers connector
Video	15-pin VGA connector
Network adapter	RJ-45 connector
USB	three 4-pin USB 2.0-compliant connectors, one eSATA/USB 2.0-compliant connector
Memory card reader	5-in-1 memory card reader

Display	
Type	White Light Emitting Diode (WLED) display
Size	
Latitude 5420/E5420/E5420m	14.0 inch high definition WLED
Latitude 5520/E55420/E5520m	15.6 inch high definition WLED
Active area (X/Y)	
Latitude 5420/E5420/E5420m	309.60 mm/173.90 mm
Latitude 5520/E55420/E5520m	344.20 mm/193.50 mm
Dimensions:	
Height	
Latitude 5420/E5420/E5420m	192.50 mm (7.57 inches)
Latitude 5520/E55420/E5520m	210.00 mm (8.27 inches)
Width	
Latitude 5420/E5420/E5420m	324.00 mm (12.75 inches)
Latitude 5520/E55420/E5520m	360.00 mm (14.17 inches)
Z-Height	
Latitude 5420/E5420/E5420m	5.20 mm (0.20 inch)
Latitude 5520/E55420/E5520m	5.80 mm (0.23 inch)
Diagonal	
Latitude 5420/E5420/E5420m	344.6 mm (14.00 inches)
Latitude 5520/E55420/E5520m	396.24 mm (15.60 inches)
Maximum resolution	
Latitude 5420/E5420/E5420m	
HD	1366 x 768 at 262 K colors
HD+	1600 x 900 at 262 K colors
Latitude 5520/E55420/E5520m	
HD	1366 x 768 at 263 K colors
FHD	1920 x 1080 at 262 K colors
Typical Brightness	200 nits
Operating angle	0° (closed) to 135°
Refresh rate	60 Hz
Minimum Viewing angles:	
Horizontal	+40°/-40°
Vertical	+10°/-30°

Display

Pixel pitch

Latitude 5420/E5420/E5420m

HD 0.2265 mm x 0.2265 mm

HD+ 0.1935 mm x 0.1935 mm

Latitude 5520/E55420/E5520m

HD 0.2520 mm x 0.2520 mm

FHD 0.1935 mm x 0.1935 mm

Keyboard

Number of keys United States: 86 keys, United Kingdom: 87 keys, Brazil: 87 keys, and Japan: 90 keys

Layout QWERTY/AZERTY/Kanji

Touchpad

Active Area

X-axis 80.00 mm

Y-axis 40.70 mm

Battery

Type 4-, 6- or 9-cell "smart" lithium ion

Dimensions:

Height

4-, 6-, and 9-cell 20.00 mm (0.79 inch)

Width

4- and 6-cell 208.00 mm (8.18 inches)

9-cell 214.00 mm (8.43 inches)

Depth

4- and 6-cell 48.08 mm (1.89 inches)

9-cell 71.79 mm (2.83 inches)

Weight



4-cell 240.00 g (0.53 lb)

6-cell 344.73 g (0.76 lb)

9-cell 508.20 g (1.12 lb)

Voltage

Battery

4-cell	14.8 VDC
6- and 9-cell	11.1 VDC
Temperature range:	
Operating	0 °C to 50 °C (32 °F to 122 °F)
Non-Operating	-40 °C to 85 °C (-40 °F to 185 °F)
	 NOTE: The battery pack is capable of safely withstanding the above storage temperatures with 100% charge.
	 NOTE: The battery pack is also capable of withstanding storage temperatures from -20 °C to +60 °C with no degradation in its performance.
Coin-cell battery	3 V CR2032 lithium coin cell

AC Adapter

Input voltage	100 VAC to 240 VAC	
Input current (maximum)	1.5 A, 1.6 A, or 1.7 A	
Input frequency	50 Hz to 60 Hz	
Output power	65 W or 90 W	
Output current	65 W	90 W
	3.34 A (continuous)	4.62 A (continuous)
Rated output voltage	19.5 +/- 1.0 VDC	
Dimensions		
	65 W	90 W
Height	16.00 mm (0.63 inch)	16.00 mm (0.63 inch)
Width	66.00 mm (2.60 inches)	70.00 mm (2.76 inches)
Length	127.00 mm (5.00 inches)	147.00 mm (5.79 inches)
Temperature range:		
Operating	0 °C to 40 °C (32 °F to 104 °F)	
Non-Operating	-40 °C to 70 °C (-40 °F to 158 °F)	

Physical

Height	
Latitude 5420/E5420/E5420m	29.90 mm to 32.50 mm (1.18 inches to 1.28 inches)
Latitude 5520/E5520/E5520m	30.20 mm to 33.20 mm (1.19 inches to 1.31 inches)
Width	

Physical

Latitude 5420/E5420/E5420m 350.00 mm (13.78 inches)

Latitude 5520/E5520/E5520m 388.00 mm (15.28 inches)

Depth

Latitude 5420/E5420/E5420m 240.00 mm (9.45 inches)

Latitude 5520/E5520/E5520m 251.00 mm (9.88 inches)

Weight

Latitude 5420/E5420/E5420m 2.27 kg (5.00 lb)

Latitude 5520/E5520 2.54 kg (5.60 lb)

Latitude E5520m 2.63 kg (5.80 lb)

Environmental

Temperature:

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 % (noncondensing)

Storage 5 % to 95 % (noncondensing)

Altitude (maximum):

Operating -15.20 m to 3048 m (-50 ft to 10,000 ft)

Non-Operating -15.20 m to 10,668 m (-50 ft to 35,000 ft)

Airborne contaminant level

G1 or lower as defined by ISA-S71.04-1985

Podešavanje sistema

Pregled


Program za podešavanje sistema (System Setup) omogućava da:

- promenite informacije o konfiguraciji sistema nakon dodavanja, promene ili uklanjanja hardvera na vašem računaru
- podesite ili promenite korisničke opcije kao što je lozinka korisnika.
- pročitate trenutnu veličinu memorije ili podesite tip instaliranog čvrstog diska.

 **OPREZ:** Ukoliko niste iskusan korisnik računara, ne menjajte postavke ovog programa. Neke promene mogu uzrokovati nepravilan rad računara.


Ulaz u Podešavanje sistema

1. Uključite (ili ponovo pokrenite) računar.
2. Kada se prikaže plavi DELL logotip, morate sačekati da se pojavi F2 odzivnik.
3. Kada se pojavi F2 odzivnik, odmah pritisnite taster <F2>.

 **NAPOMENA:** F2 odzivnik označava da je tastatura aktivna. Ovaj odzivnik se može pojaviti veoma brzo, tako da morate čekati da se prikaže, a zatim pritisnuti taster <F2>. Ako taster <F2> pritisnete pre nego što se to od vas zatraži, taj pritisak na taster se gubi.

4. Ako čekate predugo i pojavi se logotip operativnog sistema, nastavite da čekate dok ne vidite Microsoft Windows radnu površinu. Zatim isključite računar i pokušajte ponovo.

System Setup Options

 **NOTE:** Depending on the computer and its installed devices, the items listed in this section may or may not appear.

General

System Information

This section lists the primary hardware features of your computer.

- System Information
- Memory Information
- Processor Information
- Device Information

Battery Information

Displays the battery status and the type of AC adapter connected to the computer

Boot Sequence

Allows you to change the order in which the computer attempts to find an operating system.

- Diskette Drive

General

- Internal HDD
- USB Storage Device
- CD/DVD/CD-RW Drive
- Onboard NIC
- Cardbus NIC

Boot List Option Allows you to change the boot list option.

- Legacy
- UEFI

Date/Time Allows you to change the date and time.

System Configuration

Integrated NIC Allows you to configure the integrated network controller. The options are:

- Disabled
- Enabled
- Enabled w/PXE
- Enabled w/ImageServer

Default Setting: **Enabled w/PXE**

System Management Allows you to control the systems management mechanism. The options are:

- Disabled
- Alert Only
- ASF 2.0
- DASH/ASF 2.0

Default Setting: **Disabled**

Serial Port Identifies and defines the serial port settings. You can set the serial port to:

- Disabled
- Auto
- COM1
- COM2
- COM3
- COM4



NOTE: The operating system may allocate resources even though the setting is disabled.

Parallel Port Allows you to configure the parallel port on the docking station. The options are:

- Disabled
- AT
- PS2
- ECP
- DMA1

System Configuration

- DMA3

Default Setting: **AT**

Serial Port

Allows you to configure the integrated serial port. The options are:

- Disabled
- COM1
- COM2
- COM3
- COM4

Default Setting: **COM1**

SATA Operation

Allows you to configure the internal SATA hard-drive controller. The options are:

- Disabled
- ATA
- AHCI

Default Setting: **AHCI**



NOTE: SATA is configured to support RAID mode.

USB Controller

Allows you to control the USB controller. The options are:

- Enable USB Controller
- Disable USB Mass Storage Dev
- Disable USB Controller

Default Setting: **Enable USB Controller**

SMART Reporting

Allows you to activate the Self Monitoring Analysis and Reporting Technology (SMART).

Default Setting: **Disabled**

Diskette Drive

Allows you to activate the diskette drives. The options are:

- Disabled
- Enabled

Default Setting: **Disabled**

Miscellaneous Devices

Allows you to enable or disable the following devices:

- Internal Modem
- Fixed Bay
- eSATA Ports
- Hard Drive Free Fall Protection
- External USB Port
- Microphone
- Camera

You can also enable or disable Media Card and 1394 together.

Default Setting: All devices are enabled.

System Configuration

Keyboard illumination Allows you to configure the keyboard illumination feature. The options are:

- Disabled
- Level is 25%
- Level is 50%
- Level is 50%
- Levels is 100%

Default Setting: **Level is 75%**


Drives Allows you to configure the SATA drives on board. The options are:

- SATA-0
- SATA-1
- SATA-4
- SATA-5

Default Setting: All drives are enabled.


Video


LCD Brightness Allows you to set the display brightness depending up on the power source (On Battery and On AC).


 **NOTE:** The Video setting will only be visible when a video card is installed into the system.


Security

Admin Password Allows you to set, change, or delete the administrator (admin) password.

 **NOTE:** You must set the admin password before you set the system or hard drive password.


 **NOTE:** Successful password changes take effect immediately.

 **NOTE:** Deleting the admin password automatically deletes the system password and the hard drive password.

 **NOTE:** Successful password changes take effect immediately.


Default Setting: **Not set**

System Password Allows you to set, change or delete the system password.

 **NOTE:** Successful password changes take effect immediately.

Default Setting: **Not set**

Internal HDD-0 Password Allows you to set or change the system's internal hard-disk drive.


 **NOTE:** Successful password changes take effect immediately.

Default Setting: **Not set**

Password Bypass Allows you to enable or disable the permission to bypass the System and the Internal HDD password, when they are set. The options are:

- Disabled

Security

	<ul style="list-style-type: none">• Reboot bypass
	Default Setting: Disabled
Password Change	Allows you to enable the disable permission to the System and Hard Drive passwords when the admin password is set. Default Setting: Allow Non-Admin Password Changes is not selected
Strong Password	Allows you to enforce the option to always set strong passwords. Default Setting: Enable Stron Password is not selected.
OROM Keyboard Access	Allows you to set an option to enter the Option ROM Configuration screens using hotkeys during boot. The options are: <ul style="list-style-type: none">• Enable• One Time Enable• Disable Default Setting: Enable
TPM Security	Allows you to enable the Trusted Platform Module (TPM) during POST. Default Setting: The option is disabled.
Computrace	Allows you to activate or disable the optional Computrace software The options are: <ul style="list-style-type: none">• Deactivate• Disable• Activate  NOTE: The Activate and Disable options will permanently activate or disable the feature and no further changes will be allowed
	Default Setting: Deactivate
CPU XD Support	Allows you to enable the Execute Disable mode of the processor. Default Setting: Enable CPU XD Support
Non-Admin Setup Changes	Allows you to determine whether changes to the setup options are allowed when an Administrator Password is set. If disabled the setup options are locked by the admin password.
Password Configuration	Allows you to determine the minimum and maximum length of Administrator and System passwords.
Admin Setup Lockout	Allows you to prevent users from entering Setup when an Administrator password is set. Default Setting: Enable Admin Setup Lockout is not selected.

Performance

Multi Core Support	This field specifies whether the process will have one or all cores enabled. The performance of some applications will improve with the additional cores. This option is enabled by default. Allows you to enable or disable multi-core support for the processor. The options are:
--------------------	---

Performance

- All
- 1
- 2

Default Setting: **All**

Intel® SpeedStep™

Allows you to enable or disable the Intel SpeedStep feature.

Default Setting: **Enable Intel SpeedStep**

C States Control

Allows you to enable or disable the additional processor sleep states.

Default Setting: The options **C states, C3, C6, Enhanced C-states,** and **C7** options are enabled.

Limit CPUID

Allows you to limit the maximum value the processor Standard CPUID Function will support.

Default Setting: **Enable CPUID**

Intel® TurboBoost™

Allows you to enable or disable the Intel TurboBoost mode of the processor.

Default Setting: **Enable Intel TurboBoost**

Hyper-Thread Control

Allows you to enable or disable the HyperThreading in the processor.

Default Setting: **Enabled**

Power Management

AC Behavior

Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.

Default Setting: **Wake on AC** is not selected.

Auto On Time

Allows you to set the time at which the computer must turn on automatically. The options are:

- Disabled
- Every Day
- Weekdays

Default Setting: **Disabled**

USB Wake Support

Allows you to enable USB devices to wake the system from Standby.



NOTE: This feature is only functional when the AC power adapter is connected. If the AC power adapter is removed during Standby, the system setup will remove power from all of the USB ports to conserve battery power.

Wireless Radio Control

Allows you to enable or disable the feature that automatically switches from wired or wireless networks without depending on the physical connection.

Default Setting: **Disabled**

Wake on LAN

Allows you to enable or disable the feature that powers on the computer from the Off state when triggered by a LAN signal.

Default Setting: **Disabled**

ExpressCharge

Allows you to enable or disable the ExpressCharge feature. The options are:

- Standard

Power Management

- ExpressCharge

Default Setting: **Standard**

Charger Behavior

Allows you to enable or disable the battery charger. The options are;

- Disabled
- Enabled

Default Setting: **Enabled**

POST Behavior

Adapter Warnings

Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters.

Default Setting: **Enable Adapter Warnings**

Mouse/Touchpad

Allows you to define how the system handles mouse and touch pad input. The options are:

- Serial Mouse
- PS2 Mouse
- Touchpad/PS-2 Mouse

Default Setting: **Touchpad/Mouse 2**

Numlock Enable

Allows you to enable the Numlock option when the computer boots.

Default Setting: **Enable Network**

USB Emulation

Allows you to enable or disable the Legacy USB Emulation.

Default Setting: **Enable Legacy USB Emulation** is selected.

Fn Key Emulation

Allows you to set the option where the <Scroll Lock> key is used to simulate the <Fn> key feature.

Default Setting: **Enable Fn Key Emulation**

POST HotKeys

Allows you enable the sign-on screen message display indicating the keystroke sequence to access the System Setup option menu.

Default Setting: **Enable F12 Boot Option Menu**

Fastboot

Allows to set the option to speed up the boot process. The options are:

- Minimal
- Thorough
- Auto

Default Setting: **Thorough**

Virtualization Support

Virtualization

Allows you to enable or disable the Intel Virtualization Technology.

Default Setting: **Enable Intel Virtualization Technology**

Wireless

Wireless Switch	Allows to set the wireless devices that can be controlled by the wireless switch. The options are: <ul style="list-style-type: none">• WWAN• WLAB• Bluetooth Default Setting: All the options are selected.
Wireless Device Enable	Allows you to enable or disable the wireless devices.

Maintenance

Service Tag	Displays the Service Tag of your computer.
Asset Tag	Allows you to create a system asset tag if an asset tag is not already set. This option is not set by default.
SERR Messages	Controls the SERR message mechanism. This option is not set by default. Some graphics cards require that the SERR message mechanism be disabled.

System Logs

BIOS Events	Allows you to view and clear the System Setup (BIOS) POST events.
DellDiag Events	Allows you to view and clear the DellDiag events.
Thermal Events	Allows you to view and clear the Thermal events.
Power Events	Allows you to view and clear the Power events.
BIOS Progress Events	Allows you to view and clear the BIOS Progress Events.

Dijagnostika

Diagnostics

Device Status Lights



Turns on when you turn on the computer and blinks when the computer is in a power management mode.



Turns on when the computer reads or writes data.



Turns on steadily or blinks to indicate battery charge status.



Turns on when wireless networking is enabled.



Turns on when a card with Bluetooth wireless technology is enabled. To turn off only the Bluetooth wireless technology function, right-click the icon in the system tray and select **Disable Bluetooth Radio**

Battery Status Lights

If the computer is connected to an electrical outlet, the battery light operates as follows:

Alternately blinking amber light and blue light	An unauthenticated or unsupported non-Dell AC adapter is attached to your laptop.
Alternately blinking amber light with steady blue light	Temporary battery failure with AC adapter present.
Constantly blinking amber light	Fatal battery failure with AC adapter present.
Light off	Battery in full charge mode with AC adapter present.
Solid white light on	Battery in charge mode with AC adapter present.

Battery Charge and Health

To check the battery charge, press and release the status button on the battery charge gauge to illuminate the charge-level lights. Each light represents approximately 20 percent of the total battery charge. For example, if four lights are on, the battery has 80 percent of its charge remaining. If no lights appear, the battery has no charge.

To check battery health using the charge gauge, press and hold the status button on the battery charge gauge for at least 3 seconds. If no lights appear, the battery is in good condition and more than 80 percent of its original charge

capacity remains. Each light represents incremental degradation. If five lights appear, less than 60 percent of the charge capacity remains, and you should consider replacing the battery.

Keyboard Status Lights

The lights located above the keyboard indicate the following:



Turns on when the numeric keypad is enabled.




Turns on when the Caps Lock function is enabled.



Turns on when the Scroll Lock function is enabled.

Kontakt sa Dell-om

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 **NAPOMENA:** Ako nemate aktivnu vezu sa Internetom, kontakt informacije možete pronaći na fakturi, otpremnici, računu ili katalogu Dell proizvoda.

Dell nudi nekoliko opcija za onlajn i telefonsku podršku i servis. Dostupnost zavisi od zemlje i proizvoda, a neke usluge možda neće biti dostupne u vašoj oblasti. Ako želite da kontaktirate Dell u vezi prodaje, tehničke podrške ili pitanja u vezi korisničkih usluga:

1. posetite **support.dell.com**.
2. Izaberite svoju kategoriju podrške.
3. Ako ne živite u Sjedinjenim Državama, izaberite međunarodni broj vaše zemlje u dnu stranice ili izaberite opciju **All (Sve)** da biste videli ostale mogućnosti.
4. Izaberite odgovarajuću uslugu ili vezu za podršku na osnovu vaših potreba.