Dell™ Latitude™ 3000 Series Technical Guidebook Model 3450 & 3550

December 2014

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Specific features/models/configs/options discussed in this document may not be available WW

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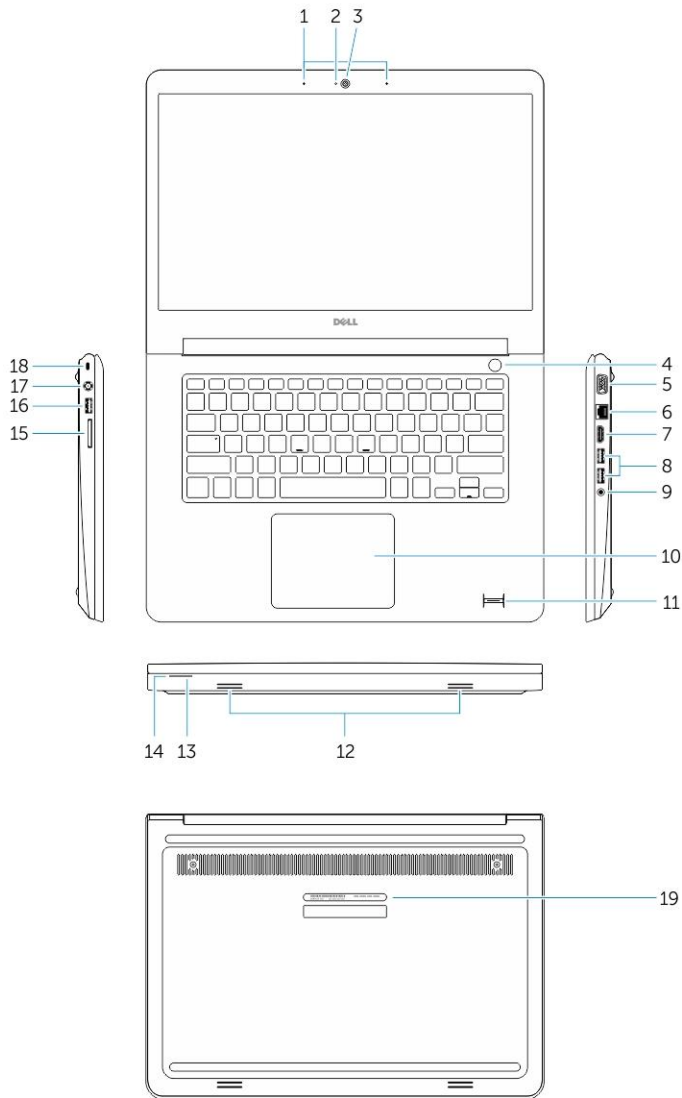
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9. Headset connector
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12. Speakers
13. Power-status light
14. Battery-status light
15. Memory-card reader
16. USB 2.0 connector
17. Power connector
18. Security-cable slot
19. Service-tag label

Starting weight:

1.9 kg (4.2 lbs) with 3-cell

Dimensions:

Width:	342.0 mm
Depth:	245.9 mm
Height:	
touch	23.0 mm
non-touch	22.2 mm

Latitude 15 3000 Weight, Dimensions, All Views

1. Microphones
2. Camera-status light
3. Camera
4. Power button
5. VGA connector
6. Network connector
7. HDMI connector
8. USB 3.0 connectors (2)
9. Headset connector
10. Touchpad
11. Finger print reader (optional)
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15. Memory-card reader
16. USB 2.0 connector
17. Power connector
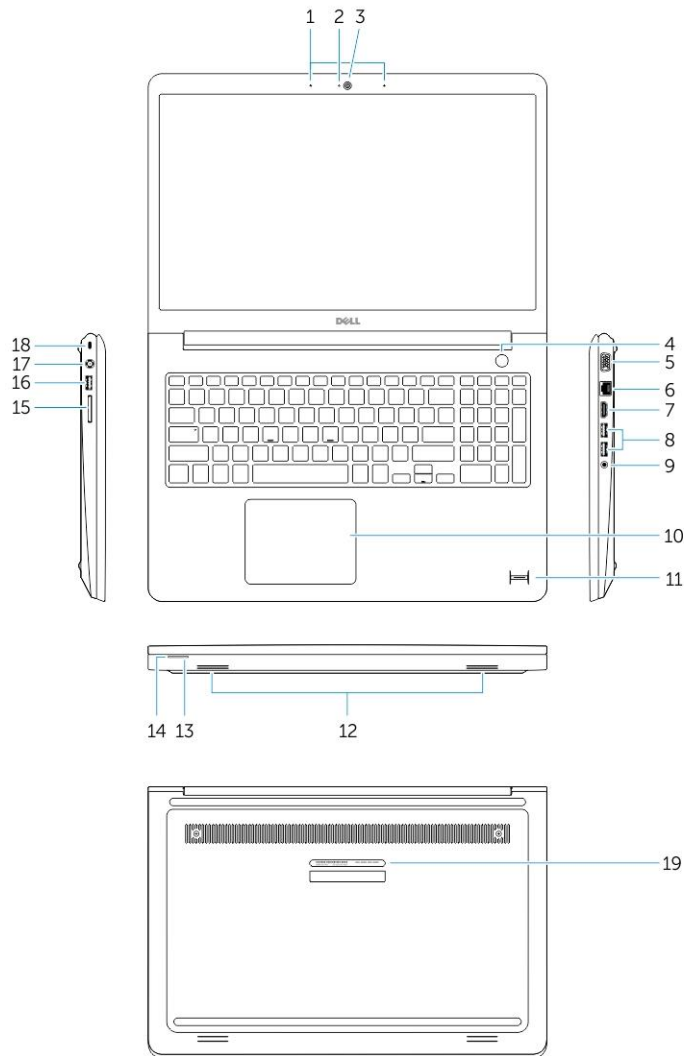18. Security-cable slot
19. Service-tag label

Starting weight:

2.2 kg (4.9 lbs) with 3-cell

Dimensions:
Width: 380.4 mm
Depth: 258.95 mm
Height:
touch   23.2 mm
non-touch   22.3 mm

Dell Latitude 14 3000 Series Technical Specifications

Feature	Technical Specification (4th Generation Intel®Sept 2014 - April 2015)	Technical Specification (5th Generation Intel®January 2015 - April 2016)
Series/Model Number	Latitude 14 3000 Series (3450)	Latitude 14 3000 Series (3450)
Processor Options	4th Generation Intel® Core i3/i5 Processors	5th Generation Intel® Celeron, Core™ up to i7 processors
Operating System	Microsoft® Windows® 7 Professional 32/64 bit Microsoft® Windows® 7 Professional 32/64-bit (available through downgrade rights from Windows® 8.1 Pro 64-bit) Microsoft® Windows® 8.1 64-bit Microsoft® Windows® 8.1 Pro 64-bit Microsoft® Windows® 8.1 Single Language 64-bit UBUNTU Linux 14.04 LTS (64-bit)	Microsoft® Windows® 7 Professional 32/64 bit Microsoft® Windows® 7 Professional 32/64-bit (available through downgrade rights from Windows® 8.1 Pro 64-bit) Microsoft® Windows® 8.1 64-bit Microsoft® Windows® 8.1 Pro 64-bit Microsoft® Windows® 8.1 Single Language 64-bit UBUNTU Linux 14.04 LTS (64-bit)
Memory[2,4] Options	DDR3L SDRAM 1600MHz; 2 slots supporting up to 4GB[1]	DDR3L SDRAM 1600MHz; 2 slots supporting up to 16GB[1]
Chipset	Integrated with the Processor (Lynx Point LP)	Integrated with the processor (Wildcat Point-LP)
Graphics	Intel® Integrated HD Graphics 4400 (Core x - 4th Gen) Nvidia® GeForce® 830M	Intel® Integrated HD Graphics (Celeron) Intel® Integrated HD Graphics 5500 (Core x - 5th Gen) Nvidia® GeForce® 830M
Display	14.0" HD (1366 x 768) Anti Glare (16:9) WLED	14.0" HD (1366 x 768) Anti Glare (16:9) WLED 14.0" FHD (1920 x 1080) Anti Glare (16:9) WLED 14.0" HD Touch with Corning® Gorilla® Glass NBT (1366 x 768) (16:9) WLED
Storage[4] Options	500GB 7200RPM Hard Disk Drive 500GB 5400 RPM Hybrid Drive (8GB Cache)	500GB 7200RPM Hard Disk Drive 500GB 5400 RPM Hybrid Drive (8GB Cache) 1TB 5400RPM Hard Disk Drive 1TB 5400RPM Hybrid Drive (8GB Cache)
Security[1]	DDP|Security Tools DDP|Protected Workspace (1 year) Optional DDP|E Encryption Software Optional Computrace[8]	DDP|Security Tools DDP|Protected Workspace (1 year) Optional DDP|E Encryption Software Optional Computrace[8]
Docking Options	USB Docking Only	USB Docking Only
Optical Drive Options	External Options Only	External Options Only
Multimedia	High Quality Speakers Universal Headphone Jack Integrated digital array microphone Integrated 1.0mp HD video webcam	High Quality Speakers Universal Headphone Jack Integrated digital array microphone Integrated 1.0mp HD video webcam

Dell Latitude 14 3000 Series Technical Specifications

Feature	Technical Specification (4th Generation Intel®Sept 2014 - April 2015)	Technical Specification (5th Generation Intel®January 2015 - April 2016)
Series/Model Number	Latitude 14 3000 Series (3450)	Latitude 14 3000 Series (3450)
Battery Options	4 cell 58 Whr Li-Ion (Prismatic cell) with ExpressCharge™	3 cell 43 Whr Li-Ion (Prismatic cell) with ExpressCharge™ 4 cell 58 Whr Li-Ion (Prismatic cell) with ExpressCharge™
Power Options	65 Watt or 90 Watt E4 AC Adapter	65 Watt or 90 Watt E4 AC Adapter
Connectivity options[1]	10/100/1000 Gigabit Ethernet **Wireless LAN Options:** Intel 7265 2x2 dual band 802.11 AGN with BT Combo Card No Mobile Broadband Options	10/100/1000 Gigabit Ethernet **Wireless LAN Options:** Intel 7265 2x2 dual band 802.11 AGN with BT Combo Card Dell Wireless 1707 1x1 single band 802.11n + BT 4.0 No Mobile Broadband Options
Ports, Slots & Chassis	Memory card reader 2 USB 3.0, 1 USB 2.0, HDMI, VGA Network connector (RJ-45) Optional Fingerprint Reader Lock slot	Memory card reader 2 USB 3.0, 1 USB 2.0, HDMI, VGA Network connector (RJ-45) Optional Fingerprint Reader Lock slot
Dimensions & Weight[7]	Width: 13.46" / 342.0mm Height: .87" / 22.2mm (non-Touch); .9" / 23.0mm (Touch) Depth: 9.68" / 245.9mm (non-Touch); 9.69" / 246.1mm (Touch) Starting weight: 4.2lbs / 1.9kg (with 3-cell battery)	Width: 13.46" / 342.0mm Height: .87" / 22.2mm (non-Touch); .9" / 23.0mm (Touch) Depth: 9.68" / 245.9mm (non-Touch); 9.69" / 246.1mm (Touch) Starting weight: 4.2lbs / 1.9kg (with 3-cell battery)
Regulatory and Environmental Compliance	Regulatory Model: P51G Regulatory Type: P51G001 ENERGY STAR 6.0 (includes Windows and Ubuntu OS) EPEAT Registered. For specific country participation and rating, please visit www.epeat.net	Regulatory Model: P51G Regulatory Type: P51G001 ENERGY STAR 6.0 (includes Windows and Ubuntu OS) EPEAT Registered. For specific country participation and rating, please visit www.epeat.net
Input	Single Pointing non-backlit keyboard Optional Single Pointing backlit keyboard Clickpad Touchpad	Single Pointing non-backlit keyboard Optional Single Pointing backlit keyboard Clickpad Touchpad
Peripheral Ecosystem[1]	Dell Monitor Stand with Port Replicator, Dell 22" or 24" Monitor, Dell Wireless Keyboard & Mouse, Dell Professional Topload Carrying Case	Dell Monitor Stand with Port Replicator, Dell 22" or 24" Monitor, Dell Wireless Keyboard & Mouse, Dell Professional Topload Carrying Case
Warranty and Service	Limited Hardware Warranty[3]; Standard 1-year On Site Service after Remote Diagnosis[5] (3-3-3); Optional 3-year Dell ProSupport™ for IT[6] ; 4 year and 5 year service and support options[6]	Limited Hardware Warranty[3]; Standard 1-year On Site Service after Remote Diagnosis[5] (3-3-3); Optional 3-year Dell ProSupport™ for IT[6] ; 4 year and 5 year service and support options[6]

Dell Latitude 14 3000 Series Technical Specifications

Feature	Technical Specification (4th Generation Intel®Sept 2014 - April 2015)	Technical Specification (5th Generation Intel®January 2015 - April 2016)
Series/Model Number	Latitude 14 3000 Series (3450)	Latitude 14 3000 Series (3450)

[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] 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

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

[5] 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) 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.

[6] Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.

[7] Weights vary depending on configuration and manufacturing variability.

[8] COMPUTRACE Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.absolute.com/en/about/legal/agreements.

Dell Latitude 15 3000 Series Technical Specifications

Feature	Technical Specification (4th Generation Intel®Sept 2014 - April 2015)	Technical Specification (5th Generation Intel®January 2015 - April 2016)
Series/Model Number	Latitude 15 3000 Series (3550)	Latitude 15 3000 Series (3550)
Processor Options	4th Generation Intel® Core i3/i5 Processors	5th Generation Intel® Celeron, Core™ up to i7 processors
Operating System	Microsoft® Windows® 7 Professional 32/64 bit Microsoft® Windows® 7 Professional 32/64-bit (available through downgrade rights from Windows® 8.1 Pro 64-bit) Microsoft® Windows® 8.1 64-bit Microsoft® Windows® 8.1 Pro 64-bit Microsoft® Windows® 8.1 Single Language 64-bit UBUNTU Linux 14.04 LTS (64-bit)	Microsoft® Windows® 7 Professional 32/64 bit Microsoft® Windows® 7 Professional 32/64-bit (available through downgrade rights from Windows® 8.1 Pro 64-bit) Microsoft® Windows® 8.1 64-bit Microsoft® Windows® 8.1 Pro 64-bit Microsoft® Windows® 8.1 Single Language 64-bit UBUNTU Linux 14.04 LTS (64-bit)
Memory[2,4] Options	DDR3L SDRAM 1600MHz; 2 slots supporting up to 4GB[1]	DDR3L SDRAM 1600MHz; 2 slots supporting up to 16GB[1]
Chipset	Integrated with the Processor (Lynx Point LP)	Integrated with the processor (Wildcat Point-LP)
Graphics	Intel® Integrated HD Graphics 4400 (Core x - 4th Gen)	Intel® Integrated HD Graphics (Celeron) Intel® Integrated HD Graphics 4400 (Core x - 4th Gen) Intel® Integrated HD Graphics 5500 (Core x - 5th Gen) Nvidia® GeForce® 830M
Display	15.6" HD (1366 x 768) Anti Glare (16:9) WLED	15.6" HD (1366 x 768) Anti Glare (16:9) WLED 15.6" FHD (1920 x 1080) Anti Glare (16:9) WLED 15.6" HD Touch with Corning® Gorilla® Glass NBT (1366 x 768) (16:9) WLED
Storage[4] Options	500GB 7200RPM Hard Disk Drive	500GB 7200RPM Hard Disk Drive 500GB Solid State Hybrid Drive (8GB Cache) 1TB 5400RPM Hard Disk Drive 1TB Solid State Hybrid Drive (8GB Cache)
Security[1]	DDP|Security Tools DDP|Protected Workspace (1 year) Optional DDP|E Encryption Software Optional Computrace[8]	DDP|Security Tools DDP|Protected Workspace (1 year) Optional DDP|E Encryption Software Optional Computrace[8]
Docking Options	USB Docking Only	USB Docking Only
Optical Drive Options	External Options Only	External Options Only
Multimedia	High Quality Speakers Universal Headphone Jack Integrated digital array microphone Integrated 1.0mp HD video webcam	High Quality Speakers Universal Headphone Jack Integrated digital array microphone Integrated 1.0mp HD video webcam

Dell Latitude 15 3000 Series Technical Specifications

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Power Options	65 Watt E4 AC Adapter	65 Watt or 90 Watt E4 AC Adapter
Connectivity options[1]	10/100/1000 Gigabit Ethernet **Wireless LAN Options:** Intel 7265 2x2 dual band 802.11 AGN with BT Combo Card No Mobile Broadband Options	10/100/1000 Gigabit Ethernet **Wireless LAN Options:** Intel 7265 2x2 dual band 802.11 AGN with BT Combo Card Dell Wireless 1707 1x1 single band 802.11n + BT 4.0 No Mobile Broadband Options
Ports, Slots & Chassis	Memory card reader 2 USB 3.0, 1 USB 2.0, HDMI, VGA Network connector (RJ-45) Optional Fingerprint Reader Lock slot	Memory card reader 2 USB 3.0, 1 USB 2.0, HDMI, VGA Network connector (RJ-45) Optional Fingerprint Reader Lock slot
Dimensions & Weight[7]	Width: 14.98" / 380.4mm Height: .88" / 22.3mm (non-Touch); .91" / 23.2mm (Touch) Depth: 10.19" / 258.95mm (non-Touch); 10.2" / 259.2mm (Touch) Starting weight: 4.9lbs / 2.2kg (with 3-cell battery)	Width: 14.98" / 380.4mm Height: .88" / 22.3mm (non-Touch); .91" / 23.2mm (Touch) Depth: 10.19" / 258.95mm (non-Touch); 10.2" / 259.2mm (Touch) Starting weight: 4.9lbs / 2.2kg (with 3-cell battery)
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Input	Single Pointing non-backlit keyboard Optional Single Pointing backlit keyboard Clickpad Touchpad	Single Pointing non-backlit keyboard Optional Single Pointing backlit keyboard Clickpad Touchpad
Peripheral Ecosystem[1]	Dell Monitor Stand with Port Replicator, Dell 22" or 24" Monitor, Dell Wireless Keyboard & Mouse, Dell Professional Topload Carrying Case	Dell Monitor Stand with Port Replicator, Dell 22" or 24" Monitor, Dell Wireless Keyboard & Mouse, Dell Professional Topload Carrying Case
Warranty and Service	Limited Hardware Warranty[3]; Standard 1-year On Site Service after Remote Diagnosis[5] (3-3-3); Optional 3-year Dell ProSupport™ for IT[6] ; 4 year and 5 year service and support options[6]	Limited Hardware Warranty[3]; Standard 1-year On Site Service after Remote Diagnosis[5] (3-3-3); Optional 3-year Dell ProSupport™ for IT[6] ; 4 year and 5 year service and support options[6]

Dell Latitude 15 3000 Series Technical Specifications

Feature	Technical Specification (4th Generation Intel®Sept 2014 - April 2015)	Technical Specification (5th Generation Intel®January 2015 - April 2016)

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Marketing System Configurations

Specific features/models/configs/options discussed in this document may not be available WW

Dell Latitude 3000 Series– Operating Systems

Microsoft

Windows 8.1	• Microsoft® Windows 8.1 Pro 64 bit • Microsoft® Windows 8.1 64 bit • Microsoft® Windows 8.1 Single Language 64 bit
Windows 7	• Microsoft® Windows 7 Professional 32/64 bit
Windows Downgrade	• Microsoft® Windows® 7 Professional 32/64-bit (available through downgrade rights from Windows® 8.1 Pro 64-bit)
Other	• Ubuntu 14.04 LTS (64 bit)
OS Media Support	• 100% Drop in the box provided for Windows 8.1 on Downgrade • Optional RDVD or USB upsell (select one)

Intel® processor Technology
Haswell Architecture

Latitude 3000 Series is built with Intel 4th Generation Core processor Technology

- 4th generation Dual Core Processor
- Intel® Integrated HD Graphics 4400
- Intel® Wireless Display 5.X Application included in Intel WLAN options

Processors Support List	UMA Graphics	GSP
Intel® Core i3-4005U (Dual Core, 1.7GHz, 3M cache, 15W)	Intel® HD Graphics 4400	No
Intel® Core i3-4030U (Dual Core, 1.9GHz, 3M cache, 15W)	Intel® HD Graphics 4400	No
Intel® Core i5-4210U (Dual Core, 1.7 GHz, 3M cache, 15W)	Intel® HD Graphics 4400	No

Intel® processor Technology
Broadwell Architecture (Coming January 2015)

Latitude 3000 Series is built with Intel 5th Generation Core processor Technology
- 5th generation Dual Core Processor
- Intel® Integrated HD Graphics 5500
- Intel® Wireless Display 5.X Application included in Intel WLAN options

Processors Support List	UMA Graphics	GSP
Intel® Celeron 3205U (Dual Core, 1.5GHz, 2M cache, 15W)	Intel® HD Graphics	No
Intel® Core i3-4005U (Dual Core, 1.7GHz, 3M cache, 15W)	Intel® HD Graphics 4400	No
Intel® Core i3-5005U (Dual Core, 2.0GHz, 3M cache, 15W)	Intel® HD Graphics 5500	No
Intel® Core i5-5200U (Dual Core, 2.2GHz, 3M cache, 15W)	Intel® HD Graphics 5500	No
Intel® Core i5-5300U (Dual Core, 2.3GHz, 3M cache, 15W)	Intel® HD Graphics 5500	No
Intel® Core i7-5500U (Dual Core, 2.4GHz, 4M cache, 15W)	Intel® HD Graphics 5500	No

Memory

- Your computer supports a maximum of 16GB* of memory when you use two 8GB DIMMs; however, 32-bit operating systems, such as the 32-bit version of Microsoft® Windows® 7, can only use a maximum of 4GB of address space. Moreover, certain components within the computer require address space in the 4GB range. Any address space reserved for these components cannot be used by computer memory; therefore, the amount of memory available to a 32-bit operating system is less than 4GB.
- Greater than 4GB memory requires a 64-bit operating system.
- **ONLY MEMORY TYPE SUPPORTED: DDR3-LOW VOLTAGE ("DDR3L")**
- **NOT BACKWARD COMPATIBLE WITH DDR3 MEMORY**

Memory	3000 Series
DIMM Slots	2
Minimum Memory Configuration	4GB
Maximum Memory Configuration*	16GB
DIMM Configurations:	
16G 1600MHz DDR3L (2x8G)*	X
8G 1600MHz DDR3L (2x4G)*	X
4G 1600MHz DDR3L (1x4G)	X

*1GB means 1 billion bytes − 8GB & 16GB options available beginning January 2015

Primary Storage

Primary Storage	3000 Series
500GB 7200rpm HDD	X
500GB 5400rpm Hybrid (8GB Cache)	X
1TB 5400rpm HDD*	X
1TB 5400rpm Hybrid (8GB)*	X

*1GB means 1 billion bytes – option available beginning January 2015

Connectivity Options

	Connectivity Option	Dell Latitude 3000 Series	Regions
WLAN M.2	Dell Wireless™ 1707 1x1 802.11N Single Band Wi-Fi + BT 4.0 Wireless Card*	X	All
	Intel® Dual Band Wireless 7265 802.11AGN Wi-Fi + BT 4.0 Wireless Card	X	WW
	Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 Wireless Card IND	X	Indonesia Only
	Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 Wireless Card*	X	Brazil Only

*option available beginning January 2015

Detailed Engineering Specifications

Specific features/models/configs/options discussed in this document may not be available WW

500GB HDD 7200 RPM

2.5" 500 GB HDD 7200 RPM	
Capacity (GB)	500GB
Dimensions inches (W x D x H)	Approximately 2.75 x 3.95 x 0.278 inches
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976,773,168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W(running IOmeter utility)

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5 to 95%

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

500GB Hybrid 8GB

500GB HYBRID 8GB	
Capacity (GB)	500GB
Dimensions inches (W x D x H)	Approximately (2.75 x 3.95 x 0.278 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976,773,168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

1TB HDD 5400 RPM

1TB HDD 5400 RPM*	
Capacity (GB)	1TB
Dimensions inches (W x D x H)	Approximately 2.75 x 3.95 x0.374 inches
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	1,953,525,168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W(running IOmeter utility)

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

*option available beginning January 2015

1TB Hybrid 8GB

500GB HYBRID 8GB*	
Capacity (GB)	1TB
Dimensions inches (W x D x H)	Approximately (2.75 x 3.95 x 0.374 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976,773,168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

*option available beginning January 2015

Memory

- Your computer supports a maximum of 16GB* of memory when you use two 8GB DIMMs; however, 32-bit operating systems, such as the 32-bit version of Microsoft® Windows® 7, can only use a maximum of 4GB of address space. Moreover, certain components within the computer require address space in the 4GB range. Any address space reserved for these components cannot be used by computer memory; therefore, the amount of memory available to a 32-bit operating system is less than 4GB.
- Greater than 4GB memory requires a 64-bit operating system.
- **ONLY MEMORY TYPE SUPPORTED: DDR3-LOW VOLTAGE ("DDR3L")**
- **NOT BACKWARD COMPATIBLE WITH DDR3 MEMORY**

Memory	3450/3550
DIMM Slots	2
Minimum Memory Configuration	4GB
Maximum Memory Configuration*	16GB
DIMM Configurations:	
16G 1600MHz DDR3L (2x8G)*	Post-launch
8G 1600MHz DDR3L (1x8G)*	x
4G 1600MHz DDR3L (1x4G)	x

*1GB means 1 billion bytes – 8GB & 16GB options available beginning January 2015

Ports and Connectors-Latitude 3000 Series

	14"	15"
USB	(2) USB 3.0 + (1) USB2.0	(2) USB 3.0 + (1) USB2.0
Video	VGA, HDMI	VGA, HDMI
Network Adapter	RJ-45 network adapter	RJ-45 network adapter
Modem	NA	NA
Audio	Realtek ALC3234-CG Controller Stereo conversion: 24-bit (analog-to-digital and digital-to-analog) Internal Interface - high-definition audio codec. External Interface - microphone-in and stereo headphones/speakers universal connector Speakers: Power / Peak Power: 2X2Wrms/2X2.5Wpeak Internal speaker amplifier: 2 watt per channel Internal microphone: digital microphone (dual microphone with camera) No volume control buttons, only support hot-key keyboard button	Realtek ALC3234-CG Controller Stereo conversion: 24-bit (analog-to-digital and digital-to-analog) Internal Interface - high-definition audio codec. External Interface - microphone-in and stereo headphones/speakers universal connector Speakers: Power / Peak Power: 2X2Wrms/2X2.5Wpeak Internal speaker amplifier: 2 watt per channel Internal microphone: digital microphone (dual microphone with camera) No volume control buttons, only support hot-key keyboard button
Expansion	SD 3.0 Memory card reader Supports the following formats: SD, SDHC, SD3.0, MS, MS Pro (1) 2230 M.2 slots	SD 3.0 Memory card reader Supports the following formats: SD, SDHC, SD3.0, MS, MS Pro (1) 2230 M.2 slots
Express Card	NA	NA

Webcam Specifications-Latitude 3000 Series

Easy Remote Collaboration:
- Videoconference online with an optional built-in camera.

Webcam Features	14"	15"
Camera Type	HD fixed focus	HD fixed focus
Sensor Type	CMOS sensor technology	CMOS sensor technology
Resolution: Motion Video	Up to 1280 x 720 (0.92 MP)	Up to 1280 x 720 (0.92 MP)
Resolution: Still Image	Up to 1280 x 720 (0.92MP)	Up to 1280 x 720 (0.92MP)
Imaging Rate	Up to 30 frames per second	Up to 30 frames per second

Wireless Communications: Wi-Fi (WLAN)

Dell Wireless™ 1707 802.11N Single Band Wi-Fi + BT 4.0LE Wireless Card*

Host interface	M.2 1630 form factor (WiFi − PCIe, Bluetooth − USB)
Network standard	802.11b, 802.11g, and 802.11n
Wi-Fi Alliance Certifications	802.11b, 802.11g, WPA, WPA2, WMM
Operating Frequency Bands	2.4 GHz (802.11b/g/n)
Dual Diversity Antenna Switching	Dual diversity antenna switching for systems designed with main and auxiliary antennas.
Data Rate	802.11n - Up to 150 Mbps for HT40MHz ; 802.11n − Up to 72.2 Mbps for HT20MHz 802.11g - Up to 54 Mbps ; 802.11b - Up to 11 Mbps
Receive Sensitivity	802.11n: -61 dBm @ 150 Mbps ; -64 dBm @ 72.2Mbps 802.11g: -65 dBm @ 54 Mbps 802.11b: -79 dBm @ 11 Mbps
Security **Authentication** **EAP Methods** **Single Sign On** **Encryption** **Cisco Compatible Extensions**	 Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK, CCKM MD5, LEAP, EAP-FAST, EAP-TLS, PEAP(TLS, MS-CHAPv2, GTC) Open, Shared, MD5, LEAP, EAP-FAST, EAP-TLS,PEAP(TLS, MS-CHAPv2, GTC), Smart Cards WEP (64 bit/128 bit), CKIP (XP), TKIP, AES-CCMP Version 5 (Windows 7)
Software Support	Microsoft® WHQL certified for Windows® 7 and Windows® 8.1
Radio On/Off	Hardware and software on/off disables transmit and receive to comply with aviation in-flight restrictions
LED output	Wireless enable.
Humidity Non-Operating	Up to 95%
Temperature	Operational 0 to 70C; Storage -20 to 70C
Roaming	Seamless roaming between 802.11b, 802.11b/g, and 802.11n access points
Wake On Wireless	Supported when using Magic Packet over the Air

*option available beginning January 2015

DELL

Wireless Communications: Wi-Fi (WLAN)

Dell Wireless™ 1707 802.11N Single Band Wi-Fi + BT 4.0LE Wireless Card (continued)

Wireless PAN Standard	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Transmission	FHSS (Frequency Hopping Spread Spectrum)
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	0~4dBm
Receiver Sensitivity	-70dBm
Temperature	Operational 0 to 70C; Storage -20 to 70C
Humidity	Up to 95%

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-N 7265 802.11AGN Wi-Fi + BT 4.0 LE Wireless Card

Host interface	M.2 2230 form factor (WiFi – PCIe, Bluetooth – USB)
Network standard	IEEE 802.11a/b/g/n
Wi-Fi Alliance Certifications	802.11n, 802.11w, WPA, WPS, WMM, WFD, Wi-Fi Direct
Operating Frequency Bands	2.4 GHz and 5 GHz
Dual Stream N	Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11a/b/g solutions.
Data Rate	Up to 300Mbps
Power Consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication Authentication Protocols Encryption Product Safety	WPA and WPA2, 802.1X,(EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2 64-bit and 128-bit WEP, AES-CCMP, TKIP UL, C-UL, CB(IEC60950-1)
Management Capabilities Alerting	Support for Intel® AMT 10.0 on Broadwell Y and Broadwell U.
Government Compliance	FIPS (Windows® 7 only), FISMA
Client Utility	Intel® PRO/Set Wireless Software v17.X and later.
Software Support	Microsoft® WHQL certified for Windows® 7 and Windows® 8.1; Linux
Radio On/Off	Supported in both hardware and software
LED output	Single WLAN-LED
Roaming	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)
Wake On Wireless	Supported when VPro/AMT is activated, or Windows® 8 without Intel AMT
Wireless Display[1]	Intel WiDi Wireless Display, supports external display resolutions up to 1080p

COUNTRY RESTRICTIONS: 802.11AGN WLAN cards cannot be sold into Indonesia

[1]WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-N 7265 802.11AGN Wi-Fi + BT 4.0 LE Wireless Card

Wireless PAN Standard	Dual Mode Bluetooth[1] 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Bluetooth Profiles Supported	For Windows 7, includes Streaming Stereo Quality Audio (A2DP), File Transfer (FTP), Dial-up Networking (DUN), Mice/Keyboards (HID), Printing (BPP), Digital Image Management (transfer, print, remote camera operation) (BIP), AVRCP Support for MS Inbox BT profiles in Windows 8, 8.1 and future OS versions.
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	Power class 2
Temperature	operating temperature 0° to +80° C storage temperature of −40° to +70° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

COUNTRY RESTRICTIONS: 802.11AGN WLAN cards cannot be sold into Indonesia

[1]WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 LE Wireless Card (INDOSNESIA ONLY)

Host interface	M.2 2230 form factor (WiFi – PCIe, Bluetooth – USB)
Network standard	IEEE 802.11a/b/g/n/ac
Wi-Fi Alliance Certifications	802.11ac, 802.11n, 802.11w, WPA, WPS, WMM, WFD, Wi-Fi Direct
Operating Frequency Bands	2.4 GHz and 5 GHz (5.725~5.850GHz)
Dual Stream N	Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11a/b/g solutions.
Data Rate	Up to 867 Mbps
Power Consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication Authentication Protocols Encryption Product Safety	WPA and WPA2, 802.1X,(EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2 64-bit and 128-bit WEP, AES-CCMP, TKIP UL, C-UL, CB(IEC60950-1)
Management Capabilities Alerting	Support for Intel® AMT 10.0 on Broadwell Y and Broadwell U.
Government Compliance	FIPS (Windows® 7 only), FISMA
Client Utility	Intel® PRO/Set Wireless Software v17.X and later.
Software Support	Microsoft® WHQL certified for Windows® 7 and Windows® 8.1; Linux
Radio On/Off	Supported in both hardware and software
LED output	Single WLAN-LED
Roaming	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)
Wake On Wireless	Supported when VPro/AMT is activated, or Windows® 8 without Intel AMT
Wireless Display	Intel WiDi Wireless Display, supports external display resolutions up to 1080p

COUNTRY RESTRICTIONS: 802.11AC WLAN cards cannot be sold into Ukraine, Russia, Kuwait, Egypt.
This card can only be shipped to Indonesia.

*WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 LE Wireless Card (INDONESIA ONLY)

Wireless PAN Standard	Dual Mode Bluetooth[1] 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Bluetooth Profiles Supported	For Windows 7, includes Streaming Stereo Quality Audio (A2DP), File Transfer (FTP), Dial-up Networking (DUN), Mice/Keyboards (HID), Printing (BPP), Digital Image Management (transfer, print, remote camera operation) (BIP), AVRCP Support for MS Inbox BT profiles in Windows 8, 8.1 and future OS versions.
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	Power class 2
Temperature	operating temperature 0° to +80° C storage temperature of −40° to +70° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

COUNTRY RESTRICTIONS: 802.11AC WLAN cards cannot be sold into Ukraine, Russia, Kuwait, Egypt.
This card can only be shipped to Indonesia.

[1]WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 LE Wireless Card (Brazil Only)

Host interface	M.2 2230 form factor (WiFi – PCIe, Bluetooth – USB)
Network standard	IEEE 802.11a/b/g/n/ac
Wi-Fi Alliance Certifications	802.11ac, 802.11n, 802.11w, WPA, WPS, WMM, WFD, Wi-Fi Direct
Operating Frequency Bands	2.4 GHz and 5 GHz
Dual Stream N	Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11a/b/g solutions.
Data Rate	Up to 867 Mbps
Power Consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication Authentication Protocols Encryption Product Safety	WPA and WPA2, 802.1X,(EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2 64-bit and 128-bit WEP, AES-CCMP, TKIP UL, C-UL, CB(IEC60950-1)
Management Capabilities Alerting	Support for Intel® AMT 10.0 on Broadwell Y and Broadwell U.
Government Compliance	FIPS (Windows® 7 only), FISMA
Client Utility	Intel® PRO/Set Wireless Software v17.X and later.
Software Support	Microsoft® WHQL certified for Windows® 7 and Windows® 8.1; Linux
Radio On/Off	Supported in both hardware and software
LED output	Single WLAN-LED
Roaming	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)
Wake On Wireless	Supported when VPro/AMT is activated, or Windows® 8 without Intel AMT
Wireless Display	Intel WiDi Wireless Display, supports external display resolutions up to 1080p

COUNTRY RESTRICTIONS: 802.11AC WLAN cards cannot be sold into Ukraine, Russia, Kuwait, Egypt.
This card is for Brazil only.

*WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wireless Communications: Wi-Fi (WLAN)

Intel® Dual Band Wireless-AC 7265 802.11AC Wi-Fi + BT 4.0 LE Wireless Card (Brazil Only)

Wireless PAN Standard	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Bluetooth Profiles Supported	For Windows 7, includes Streaming Stereo Quality Audio (A2DP), File Transfer (FTP), Dial-up Networking (DUN), Mice/Keyboards (HID), Printing (BPP), Digital Image Management (transfer, print, remote camera operation) (BIP), AVRCP Support for MS Inbox BT profiles in Windows 8, 8.1 and future OS versions.
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	Power class 2
Temperature	operating temperature 0° to +80° C storage temperature of −40° to +70° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

COUNTRY RESTRICTIONS: 802.11AC WLAN cards cannot be sold into Ukraine, Russia, Kuwait, Egypt.
This card is for Brazil only.

*WiDi requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display

Wired Communications

Network Adapter (NIC) – Realtek

Realtek RTL8111GUS Gigabit Ethernet Controller	Integrated on system board
External connector type	RJ-45
Data Rates	10/100/1000 Mbps
Controller bus architecture	PCI-e V1.1x1
Power consumption **(full operation per data rate connection speed)**	1000 Mbps: 425 mW 100 Mbps: 211 mW 10 Mbps: 223 mW
Power consumption (standby operation)	10 Mbps Idle (w/ WOL): 27.29 mW S0 idle: 12.84mW S3/S5 (w/o WOL): 1.49mW
IEEE standards compliance	802.3, 802.3ab, 802.3u, 802.az
Boot ROM Support	Support boot from PXE option ROM
Network Transfer Rate	Full duplex at 10, 100, or 1000 Mbps and half duplex at 10 or 100 Mbps.
Operating Temp/Storage Temp	0C to 70C/-55C to 125C
Operating Humidity	N/A
Operating System Driver support	Linux, Win7, Win8.1
Manageability	WOL, PXE
Management Capabilities Alerting	N/A

Security

Security Hardware	3000 Series
Optional Fingerprint Reader	Yes
TPM not supported	No TPM

Integrated Graphics Controller

Integrated Graphics Controller	Intel HD 5500 (Intel Broadwell Celeron/i3/i5/i7 Processors)
Model	Dell Latitude 14 & 15 3000 Series Models: 3450/3550
Bus Type	Internal PCIe
Memory Interface	DDR3L 1333/1600
Clock Speeds	Core i7 5500U: 2.4GHz Core i5 5300U: 2.3GHz Core i5 5200U: 2.2GHz Core i3 5005U: 2.0GHz Celeron 3205U: 1.5GHz
Max Graphics dynamic frequency	Core i7 5500U: 300/950 MHz Core i5 5300U: 300/900 MHz Core i5 5200U: 300/900 MHz Core i3 5005U: 300/850 MHz Celeron 3205U: 100/800 MHz
Graphics Level	i3/i5/i7 : Intel HD 5500 GT2 Celeron 3205U : Intel® HD Graphics
Estimated Maximum Power Consumption (TDP)	15W
Display Support	eDP (internal), HDMI, VGA
Maximum Color Depth	32bit
Maximum Vertical Refresh Rate	Up to 85Hz depending on resolution
Operating Systems Graphics/ Video API Support	DirectX* 11.1, DirectX* 11.1+, OpenGL* 4.0, OpenGL* 4.2 support
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	Max Digital: (HDMI): 4096x2304 @ 24 Hz Analog: (VGA): 1920x1200/32bpp @ 60Hz
Numbers of Displays Supported	3 displays (LCD + HDMI + VGA) in triple-clone or extended desktop

Nvidia Discrete Graphics Controller

Graphics Controller	Discrete Graphics: NVIDIA GeForce 830M
Models	3450/3550
Graphics Memory	2GB – DDR3 Graphics Memory
Bus Type	Internal PCIe
Memory Interface	64-Bit
Clock Speeds	1059MHz Core / 900MHz Memory
Estimated Maximum Power Consumption	20W
Display Support	None. 3450/3550 uses Hybrid Graphics, Intel graphics drives all physical outputs
Maximum Color Depth	N/A
Maximum Vertical Refresh Rate	N/A
Operating Systems Graphics/ Video API Support	DirectX 11.1, OpenGL 4.2
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	N/A
Numbers of Displays Supported*	Please refer to the "Display Options" Section

* All display outputs are driven by the Intel graphics solution. Discrete graphics does not directly drive any display outputs

Display

3450	14.0" HD Anti-Glare LCD display with LED backlight
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions	
Height	205.6mm(maximum)
Width	320.9mm(maximum)
Diagonal	14.0"
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	300:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	3.0W

Display

3450	14.0" HD Touch Anti-Glare LCD display with LED backlight*
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions	
Height	205.6mm(maximum)
Width	320.9mm(maximum)
Diagonal	14.0"
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	3.4W

*option available beginning January 2015

Display

3450	14.0" FHD Anti-Glare LCD display with LED backlight*
Type	HD Anti-Glare
Luminance (typical)	300 nits
Dimensions	
Height	205.6mm(maximum)
Width	320.9mm(maximum)
Diagonal	14.0"
Native Resolution	1366 x 768
Megapixels	2.07
Pixels per Inch (PPI)	157
Contrast Ratio (min)	600:1
Response Time (max)	35 msec typ (black to white)
Refresh Rate	60 Hz
Horizontal View Angle	+/- 80 degrees
Vertical View Angle	+/- 80 degrees
Pixel Pitch	0.161 mm
Power Consumption (maximum)	5.3 W

*option available beginning January 2015

Display

3550	15.6" HD Anti-Glare LCD display with LED backlight
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions	
Height	360mm(maximum)
Width	224.3mm(maximum)
Diagonal	15.6"
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	101
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.252 mm
Power Consumption (maximum)	4.0 W

Display

3550	15.6" HD Touch Anti-Glare LCD display with LED backlight*
Type	HD GGNBT
Luminance (typical)	200 nits
Dimensions	
Height	360mm(maximum)
Width	224.3mm(maximum)
Diagonal	15.6"
Native Resolution	1366 x 768
Megapixels	1.05
Pixels per Inch (PPI)	101
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.252 mm
Power Consumption (maximum)	4.0 W

*option available beginning January 2015

Display

3550	15.6" FHD Anti-Glare LCD display with LED backlight*
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions	
Height	360mm(maximum)
Width	224.3mm(maximum)
Diagonal	15.6"
Native Resolution	1920x1080
Megapixels	2.07
Pixels per Inch (PPI)	141
Contrast Ratio (min)	600:1
Response Time (max)	35 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+/- 80 degrees
Vertical View Angle	+/-80 degrees
Pixel Pitch	0.179 mm
Power Consumption (maximum)	6.2 W

*option available beginning January 2015

Dell Latitude 3000 Series Battery Specification

	3-cell (43 WHr)*	4-cell (58WHr)
Battery Type	Lithium ion (Prismatic cell)	Lithium ion (Prismatic cell)
Dimension	(outline ID 3cell same as 4cell)	(outline ID 3cell same as 4cell)
Length	208.25mm	208.25mm
Width	124.7 mm	124.7 mm
Height	7.8mm	7.8mm
Weight	3cell:283g	4cell :350g
Voltage	3cell : 11.1VDC	4cell :7.4 VDC
Typical Amp-hour capacity	3.9Ahr	7.8Ahr
Typical Watt-hour capacity	43Whr	58Whr
Temperature		
Operating	Charge: 0 °C to 50 °C, 32 °F to 122 °F Discharge: 0 °C to 70 °C, 32 °F to 158 °F	Charge: 0 °C to 50 °C, 32 °F to 122 °F Discharge: 0 °C to 70 °C, 32 °F to 158 °F
Non-Operating	-20 °C to 65 °C -4 °F to 149 °F	-20 °C to 65 °C -4 °F to 149 °F
Charging time	0~15degC: 4 hour 16~45degC: 2 hours 46~60degC: 3 hours	0~15degC: 4 hour 16~45degC: 2 hours 46~60degC: 3 hours
ExpressCharge Capable	Yes	Yes
BATTMAN Capable	Yes	Yes

Express charge benefits

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

*option available beginning January 2015

Dell Latitude 3000 Series Power Adapters

Adapter Specifications	E4 65W	E4 90W
Input voltage	100 to 240 VAC	100 to 240 VAC
Input current (max)	1.7 A	2.5 A
Input frequency	50 to 60 Hz	50 to 60 Hz
Output current	3.34 A (continuous)	4.62 A (continuous)
Rated output voltage	19.5 VDC	19.5 VDC
Weight (lbs)	0.64	0.73
Weight (kg)	0.29	0.33
Dimensions (inches)	1.1 x 1.9 x 4.3	1.3 x 2.0 x 5.0
Dimensions (mm)	28 x 47 x 108	32 x 52 x 128
Temperature range:	0º to 40ºC	0º to 40ºC
Operating	32º to 104ºF	32º to 104ºF
Storage	-40º to 70ºC	-40º to 70ºC
	-40º to 158ºF	-40º to 158ºF

- AC adapters are compliant with the ErP II Lot 6 new Europe Regulatory Power Requirements effective 1/3/2013

Dell Latitude 3000 Series
Power Cord + Adapter: Length and Weight

E4 65W Standard Power Cord+ Adapter

Weight	Grams	Pounds
E4	290	0.64

Length	Meters	Feet + Inches
E4	1	3' 3"

E4 90W Standard Power Cord+ Adapter

Weight	Grams	Pounds
E4	330	0.73

Length	Meters	Feet + Inches
E4	1	3' 3"

Dell Latitude 3000 Series Keyboard

3450 Keyboard Specs

Number of keys	US Layout (80 key) Brazil layout (82 keys) Japan layout (84 key) UK Layout (81 key)
Layout	US/UK/Japanese/Brazil
Size	277.58mm X 107.55mm
Backlit keyboard option	Yes

3550 Keyboard Specs

Number of keys	US Layout (101 key) Brazil layout (104 keys) Japan layout (105 key) UK Layout (102 key)
Layout	US/UK/Japanese/Brazil
Size	346.28mm X 107.55mm
Backlit keyboard option	Yes

Dell Latitude 3000 Series Keyboards Hot Key Definition

Fn Key Combination	Function
Fn+ESC	Fn Toggle
Fn+ F1	Speaker Mute
Fn + F2	Volume Down
Fn + F3	Volume Up
Fn + F4	Previous
Fn + F5	Play/Pause
Fn + F6	Next
Fn + F8	Display Toggle (Win + P)
Fn + F9	Search
Fn + F10	Increase Keyboard Backlight Brightness
Fn + F11	Panel Brightness Down
Fn + F12	Panel Brightness Up
Fn + Prt Scr	Wireless On/Off
Fn + Left Cursor	Home (3450 only)
Fn + Right Cursor	End (3450 only)

Fn Key Mode:
Standard = The F1-F12 keys behave as function keys. Holding <Fn> is required to access their secondary functions.
Secondary~14~= The F1-F12 keys control the secondary functions. <Fn> is required to access the standard functions.

Dell Latitude 3000 Series Touch Pad Specifications

Touch Pad

X/Y position resolution	500dpi
Size	Sensor-active area: • Width: 102.4mm • Height: 7.4mm
Multi-Touch	Configurable Single Finger and Multi-Finger gestures

Supported Gestures	Windows 7	Windows 8.1
Circular Scrolling	Not supported	Not supported
Drag Lock	Supported	Supported
Edge Swipe	Not supported	Supported
Horizontal / Vertical Scroll Zones	Not supported	Not supported
Zoom Zones	Not supported	Not supported
Zig Zag	Supported (disabled by default)	Supported (enabled by default)
2-finger Pan / Scroll	Supported	Supported
2-finger Pinch Zoom	Supported (disabled by default)	Supported
2-finger Rotate	Supported (disabled by default)	Supported (disabled by default)
2-finger Tap	Not supported	Supported (enabled by default)
3-finger Flick Right/Left/Up/Down	Supported (disabled by default)	Supported (disabled by default)

Dell Latitude 3000 Series
Operating conditions

Models	Dell Latitude 3000 Series
Temperature Range	Operating 0° to 35°C (32° to 95°F) Storage −40° to 65°C (−40° to 149°F)
Relative humidity (maximum)	Operating 10% to 90% (non-condensing) Storage 5% to 95% (non-condensing)
Altitude (maximum)	Operating −15.2 to 3048 m (−50 to 10,000 ft) Storage −15.2 to 10,668 m (−50 to 35,000 ft)

Link to Product Safety, EMC and Environmental Data Sheets:
http://www.dell.com/content/topics/global.aspx/about_dell/values/regulatory_compliance/dec_conform?c=us&cs=04&l=en&s=bsd&redirect=1

Dell Latitude 3000 Series
MIL-STD 810G Testing

Models	Dell Latitude 3000 Series
MIL-STD-810G Tests Performed[1]	1. METHOD 501.5 HIGH TEMPERATURE Procedure I Induced (Storage and Transition) Conditions " 2. METHOD 502.5 LOW TEMPERATURE Procedure I (Exaggerated) 3. METHOD 507.5 HUMIDITY Procedure I - Induced (Storage & Transit) and Natural and Cycles Table 507.5-I Hot-humid (Cycle B3)" 4. IP5x Dust Ingress Protection: 8 hours 5. METHOD 514.6 VIBRATION Procedure I Non-Operational Cat.24 6. Method 516.6 SHOCK Procedure I: Functional Shock 7. Method 516.6 SHOCK Procedure IV: Transit Drop 8. Method 516.5 SHOCK Procedure II: Material to be Packaged 9. Method 516.5 SHOCK Procedure V: Crash Hazard Shock 10. Method 516.6 SHOCK Procedure VI: Bench Handling 11. Keyboard Spill Test

Link to Product Safety, EMC and Environmental Data Sheets:
http://www.dell.com/content/topics/global.aspx/about_dell/values/regulatory_compliance/dec_conform?c=us&cs=04&l=en&s=bsd&redirect=1

[1] Tests completed by independent 3rd party ISO/IEC-17025 certified laboratories.