

# COMPARISON OF 15-INCH CLASS LAPTOPS

We compared the new Dell™ XPS™ 15 9570 with other 15-inch-class laptops. These include devices from Acer®, Aorus®, Apple®, ASUS®, CHUWI®, Fujitsu®, HP, Lenovo®, Sager®, Samsung®, and Toshiba®. The tables below compare the systems using publicly available data at each vendor’s respective website. We gathered this data on 05/14/2018 at the links provided.

According to vendor-provided data for these laptops, the Dell XPS 15 9570:

- has the longest battery life of any 15-inch laptop
- is the smallest 15.6-inch performance laptop<sup>1</sup>

Brand	Model	Battery info	Battery life claims
Dell	<a href="#">XPS 15 9570</a>	6-cell Lithium ion 97Wh	20 hours, 39 minutes; 20 hours, 18 minutes (depending on configuration)
Acer	<a href="#">Aspire 3 (A315-21-95KF)</a>	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	<a href="#">Aspire 3 (A315-51-31GK)</a> <a href="#">(A315-31-C514)</a> <a href="#">(A315-51-31RD)</a> <a href="#">(A315-31-C8WK)</a> <a href="#">(A315-51-580N)</a> <a href="#">(A315-51-51SL)</a> <a href="#">(A315-31-POSY)</a> <a href="#">(A315-31-C58L)</a> <a href="#">(A315-51-380T)</a> <a href="#">(A315-51-C0DT)</a> <a href="#">(A315-51-C06Z)</a> <a href="#">(A315-51-582F)</a> <a href="#">(A315-51-39CG)</a>	2 cell Lithium Ion 4810 mAh	6.5 hours
Acer	<a href="#">Aspire 3 (A315-51-533U)</a> <a href="#">(A315-52-50N9)</a>	2 cell Lithium Ion 4810 mAh	No official claim. <a href="#">B&amp;H</a> claims 6.5 hours.

<sup>1</sup> There are several smaller Samsung Notebook 9 devices, but those notebooks also have a 15-inch screen as opposed to 15.6 inches.



Brand	Model	Battery info	Battery life claims
Acer	<a href="#">Aspire 3</a> <a href="#">(A315-51-57Z4)</a> <a href="#">(A315-51-52S5)</a> <a href="#">(A315-51-514S)</a> <a href="#">(A315-51-38QP)</a> <a href="#">(A315-51-361T)</a> <a href="#">(A315-51-30AT)</a> <a href="#">(A315-51-C7CF)</a>	2 cell Lithium Ion 4810 mAh	No official claim. <a href="#">CDW</a> claims 6.5 hours.
Acer	<a href="#">Aspire 3</a> <a href="#">(A315-21-47B4)</a>	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	<a href="#">Aspire 3</a> <a href="#">(A315-21-4098)</a> <a href="#">(A315-21-92FX)</a>	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51G-515J)</a> <a href="#">(A515-51G-89LS)</a> <a href="#">(A515-51G-5067)</a> <a href="#">(A515-51G-5504)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51-596K)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51-5398)</a> <a href="#">(A515-51-513F)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51G-71RS)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51G-5536)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51G-58SA)</a> <a href="#">(A515-51G-52R1)</a>	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> <a href="#">(A515-51-84PS)</a>	4 cell Lithium Ion 3220 mAh	7 hours

Brand	Model	Battery info	Battery life claims
Acer	<a href="#">Aspire 5</a> (A515-51G-84ZP)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> (A515-51G-503E) (A515-51G-53F6)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> (A515-41G-F3FL)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> (A715-71G-71NC)	4-cell 3220 mAh Li-Polymer	7 hours
Acer	<a href="#">Aspire 5</a> (A515-51-50RR) (A515-51G-5488)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> (A515-51-53TH) (A515-51-89UP)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 5</a> (A515-51-50XZ)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire 7</a> (A715-71G-71L2) (A715-71G-7588)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	<a href="#">Aspire E</a> (E5-576G-81GD) (E5-576G-825K)	6 cell Lithium Ion 2800 mAh	No official claim. No third party claim found.
Acer	<a href="#">Aspire E</a> (E5-576G-5762) (E5-576G-56HU)	6 cell Lithium Ion 2800 mAh	No official claim. No third party claim found.
Acer	<a href="#">Aspire E</a> (E5-575T-33CF)	6 cell Lithium Ion 2800 mAh	No official claim. No third party claim found.
Acer	<a href="#">Aspire E</a> (E5-553-T5K4) (E5-553G-F8EF) (E5-553G-14QY)	6 cell Lithium Ion 2800 mAh	No official claim. <a href="#">Laptop Suggest</a> claims 10 hours.

Brand	Model	Battery info	Battery life claims
Acer	<a href="#">Aspire E (E5-575-33BM)</a>	6 cell Lithium Ion 2800 mAh	No official claim. <a href="#">PC Verge</a> claims 9 hours, 45 minutes.
Acer	<a href="#">Aspire E (E5-553-T2XN)</a> <a href="#">(E5-575-72N3)</a>	4-cell Lithium Ion 2800 mAh	No official claim. No 3rd party claim found.
Acer	<a href="#">Aspire E (E5-575T-3678)</a>	4-cell Lithium Ion 2800 mAh	8 hours
Acer	<a href="#">Aspire ES (ES1-533-C55P)</a> <a href="#">(ES1-572-3729)</a>	4 cell Lithium Ion 3220 mAh	6.5 hours
Acer	<a href="#">Aspire F 15 (F5-573-7630)</a>	6-cell Lithium Ion 2800 mAh	12 hours
Acer	<a href="#">Aspire F 15 (F5-573G-77BJ)</a>	6 cell Lithium Ion 2800 mAh	12 hours
Acer	<a href="#">Aspire V Nitro (VN7-593G-76SS)</a>	4-cell Lithium Ion 4605 mAh	6 hours
Acer	<a href="#">Nitro 5 (AN515-51-75A2)</a> <a href="#">(AN515-51-5594)</a> <a href="#">(AN515-51-55WL)</a> <a href="#">(AN515-51-78C6)</a> <a href="#">(AN515-51-72HL)</a>	4-cell 3220 mAh Lithium Ion	8.5 hours
Acer	<a href="#">Nitro 5 (AN515-51-504A)</a> <a href="#">(AN515-51-74U4)</a> <a href="#">(AN515-51-50PN)</a> <a href="#">(AN515-51-79DZ)</a> <a href="#">(AN515-51-71LP)</a> <a href="#">(AN515-51-76SX)</a> <a href="#">(AN515-51-56U0)</a> <a href="#">(AN515-51-522L)</a> <a href="#">(AN515-51-70V4)</a>	4-cell 3220 mAh Lithium Ion	7 hours

Brand	Model	Battery info	Battery life claims
Acer	<a href="#">Nitro 5 (AN515-41-F03E)</a> <a href="#">(AN515-41-F6VS)</a>	4-cell 3220 mAh Lithium Ion	6 hours
Acer	<a href="#">Predator 15 (G9-593-735L)</a>	8-cell 6000 mAh Lithium Ion	3 hours
Acer	<a href="#">Predator 15 (G9-593-77WF)</a> <a href="#">(G9-593-71EH)</a>	8-cell 6000 mAh Lithium Ion	3 hours
Acer	<a href="#">Predator 15 (G9-593-73N6)</a>	8-cell 6000 mAh Lithium Ion	3 hours
Acer	<a href="#">Predator Helios 300 (G3-571-77QK)</a>	4-cell 3220 mAh Lithium Ion	7 hours
Acer	<a href="#">Predator Helios 300 (G3-572-72YF)</a> <a href="#">(G3-572-78JY)</a> <a href="#">(G3-572-7526)</a> <a href="#">(G3-571-73H3)</a>	4-cell 3220 mAh Lithium Ion	9 hours
Acer	<a href="#">Predator Triton 700 (PT715-51-732Q)</a> <a href="#">(PT715-51-761M)</a>	3-cell 4670 mAh Lithium Ion	5 hours
Acer	<a href="#">Swift 3 (SF315-51-518S)</a>	4-cell 3220 mAh Lithium Ion	10 hours
Acer	<a href="#">Swift 3 (SF315-51G-51CE)</a>	4-cell 3220 mAh Lithium Ion	10 hours
Acer	<a href="#">TravelMate P6 (TMP658-MG-749P)</a>	3-cell 4850 mAh Lithium Ion	No official claim. <a href="#">Amazon</a> claims 10 hours.
Acer	<a href="#">TravelMate P6 (TMP658-M-70S3)</a>	3-cell 4850 mAh Lithium Ion	No official claim. <a href="#">Amazon</a> claims 10 hours.
Acer	<a href="#">TravelMate P6 (TMP658-M-59SY)</a>	3-cell 4850 mAh Lithium Ion	No official claim. <a href="#">Amazon</a> claims 10 hours.
Aorus	<a href="#">X5</a>	Li Polymer 73.26Wh	No official claim. <a href="#">Notebook Check</a> claims 2 hours, 45 minutes while idle.

Brand	Model	Battery info	Battery life claims
Aorus	<a href="#">X5S v5</a>	Li Polymer 73.26Wh	No official claim. <a href="#">Notebook Check</a> claims 5 hours, 13 minutes while idle.
Aorus	<a href="#">X5 v6</a>	Li Polymer 94.24Wh	No official claim. <a href="#">Notebook Check</a> claims 4 hours, 9 minutes while idle.
Aorus	<a href="#">X5 v7</a>	Li Polymer 94.24Wh	No official claim. <a href="#">The Tech Report</a> claims 2.9 hours while web browsing.
Aorus	<a href="#">X5 MD</a>	Li Polymer 94.24Wh	No official claim. <a href="#">Ultrabook Review</a> claims 3 hours, 10 minutes during movie playback.
Apple	<a href="#">MacBook Pro with Retina Display</a>	99.5 Whr Lithium-polymer battery	9 hours wireless web; 9 hours iTunes movie playback
Apple	<a href="#">MacBook Pro with Touch Bar</a>	76.0 Whr Lithium-polymer battery	10 hours wireless web 10 hours iTunes movie playback
ASUS	<a href="#">ROG GL553VD</a>	4 cell 48 Whrs Li-ion	No official claim. <a href="#">PC Verge</a> claims 4 hours, 21 minutes.
ASUS	<a href="#">ROG GL553VE</a>	4 cell 48 Whrs Li-ion	No official claim. <a href="#">Amazon</a> claims 5 hours.
ASUS	<a href="#">ROG GL502VS</a>	4 cell 62 Whrs	No official claim. <a href="#">Engaget</a> claims 6 hours.
ASUS	<a href="#">ROG GL503</a> <a href="#">(ROG Strix Hero Edition)</a> <a href="#">(ROG Strix SCAR Edition)</a>	4 cell 64 Whrs	No official claim. <a href="#">LAPTOP Magazine</a> claims 3 hours, 32 minutes browsing the web on a Wi-Fi connection.
ASUS	<a href="#">ROG ZEPHYRUS (GX501)</a>	4 cell 50 Whrs Li-ion	6 hours while web browsing
ASUS	<a href="#">ZenBook UX510UW</a>	48 Wh	No official claim. <a href="#">Ultrabook Review</a> claims 7 hours, 40 minutes of movie playback with Wi-Fi enabled.
ASUS	<a href="#">ZenBook Pro UX550VE</a>	73Wh 8 cell	14 hours
ASUS	<a href="#">VivoBook S15 S510UA</a>	3 cell 42 Whrs	No official claim. <a href="#">Notebook Check</a> claims 4.5 hours of real-world WLAN use.
ASUS	<a href="#">VivoBook Pro 15 N580VD</a>	3 cell 47 Whrs	No official claim. <a href="#">PC Verge</a> claims 4 to 5 hours.
ASUS	<a href="#">VivoBook Max X541UA</a>	3 cell 36 Whrs	No official claim. <a href="#">Gadgets 360</a> claims 2 hours, 17 minutes with Battery Eater Pro and 3 hours, 39 minutes with PCMark Battery.

Brand	Model	Battery info	Battery life claims
CHUWI	<a href="#">LapBook 15.6</a>	10000mAh	5 hours
Fujitsu	<a href="#">Lifebook E557</a>	Main Li-Ion battery 6-cell, 5,800 mAh, 63 Wh High Capacity Li-Ion battery 6-cell, 6,700 mAh, 72 Wh	Up to 13 hours, 10 minutes with HD Display, 500 GB HDD, 63 Wh Up to 11 hours, 20 minutes with FHD Display, 500 GB HDD, 63 Wh Up to 17 hours, 30 minutes with HD Display, 256 GB SSD, 72 Wh Up to 14 hours, 50 minutes with FHD Display, 256 GB SSD, 72 Wh
Fujitsu	<a href="#">Lifebook E558</a>	Lithium polymer battery 4-cell, 50 Wh	Up to 13 hours, 40 minutes
Fujitsu	<a href="#">Lifebook U758</a>	Lithium polymer battery 4-cell (50 Wh)	Up to 12 hours, 10 minutes
Fujitsu	<a href="#">Lifebook U757</a>	Li-Ion battery 4-cell, 50 Wh	Up to 11 hours, 20 minutes with HD Display Up to 9 hours, 10 minutes with FHD (non-touch or touchscreen)
HP	<a href="#">15t</a>	4 cell (41 WHr) Lithium-ion Battery	6 hours, 15 minutes
HP	<a href="#">250 G6</a>	4 cell (41 WHr) Lithium-ion Battery	12 hours
HP	<a href="#">255 G6</a>	4 cell (41 WHr) Lithium-ion Battery	7 hours, 30 minutes
HP	<a href="#">OMEN 15t</a>	4 cell (63.3 WHr) Lithium-ion Battery	Up to 8 hours, 30 minutes
HP	<a href="#">OMEN 15 -ce051nr</a>	4-cell, 70 Wh Li-ion	Up to 7 hours
HP	<a href="#">HP Pavilion Power Laptop - 15t Quad</a>	4 cell (70 WHr) Lithium-ion polymer Battery	10 hours 30 minutes FHD 8 hours 30 minutes UHD 9 hours video playback FHD 6 hours 45 minutes video playback UHD

Brand	Model	Battery info	Battery life claims
HP	<a href="#">Pavilion 15t</a>	3 cell (41 WHr) Lithium-ion prismatic Battery	9 hours HD 7 hours 15 minutes FHD 8 hours 45 minutes video playback HD 7 hours 15 minutes video playback FHD
HP	<a href="#">Pavilion 15z</a>	3 cell 31 WHr Lithium-ion Battery 4 cell 41 WHr Lithium-ion Battery	6 hours and 45 minutes HD 5 hours and 15 minutes FHD 4 hours and 45 minutes video playback HD 4 hours and 15 minutes video playback FHD
HP	<a href="#">Pavilion 15-cc555nr</a>	3 cell (41 WHr) Lithium-ion prismatic Battery	Up to 10 hours, 15 minutes
HP	<a href="#">EliteBook 755 G4</a>	3 Cell 51 WHr Long Life	No official claim. <a href="#">Newegg</a> claims 14.8 hours.
HP	<a href="#">EliteBook 850 G3</a>	3-cell (46 WHr) Long Life	13 hours, 15 minutes
HP	<a href="#">EliteBook 850 G4</a>	3-cell (51 WHr) Lithium-Ion Battery	Up to 14 hours, 15 minutes (MM2014)
HP	<a href="#">EliteBook 850 G5</a>	3-cell (56 WHr) lithium-Ion Battery	No official claim. No 3rd party claims.
HP	<a href="#">Envy 15t</a>	3-cell (52 WHr) Lithium-Ion Battery	7 hours
HP	<a href="#">Envy 15-as-152nr</a>	3-cell (52 WHr) Lithium-Ion Battery	7 hours 30 mins
HP	<a href="#">ProBook 450 G3</a>	4-Cell (44 WHr) Lithium-Ion Battery 6-cell (55 WHr) Battery Long Life	No official claim. <a href="#">Notebook Check</a> claims 5 hours, 37 minutes of video playback and 5 hours, 9 minutes while web-browsing.
HP	<a href="#">ProBook 450 G5</a>	3-cell (48 WHr) Long Life Li-ion	Up to 16 hours, 15 minutes
HP	<a href="#">ProBook 650 G2</a>	3-cell (48 WHr) Long Life Li-ion	No official claim. <a href="#">Notebook Check</a> claims 6 hours, 48 minutes while surfing the web on a WiFi connection.
HP	<a href="#">ProBook 650 G3</a>	3-cell (48 WHr) Long Life	Up to 13 hours, 45 minutes
HP	<a href="#">ProBook 650 G4</a>	3-cell (48 WHr) Long Life	No official claim. <a href="#">LaptopMedia.com</a> claims 8 hours, 20 minutes while web-browsing.



Brand	Model	Battery info	Battery life claims
HP	<a href="#">ProBook 655 G3</a>	3-cell (48 WHr) Long Life	No official claim. <a href="#">B&amp;H</a> claims 9.5 hours.
HP	<a href="#">Zbook 15 G3</a>	9-cell (90 WHr) Long Life	No official claim. <a href="#">Notebook Check</a> claims 6 hours, 26 minutes while surfing the web on a WiFi connection.
HP	<a href="#">Zbook 15u G3</a>	3-cell 46 WHr Li-ion prismatic	No official claim. <a href="#">Notebook Check</a> claims 5 hours, 12 minutes while surfing the web on a WiFi connection.
HP	<a href="#">Zbook 15u G4</a>	3-cell 51 WHr Li-ion	No official claim. <a href="#">Nothing but Savings</a> claims 10 hours.
HP	<a href="#">Zbook Studio G3</a>	4-cell 64 WHr Li-ion prismatic	No official claim. No 3rd party claims.
HP	<a href="#">Zbook Studio G4</a>	4-cell 64 WHr Li-ion prismatic	No official claim. <a href="#">LAPTOP Magazine</a> claims 4 hours, 26 minutes of continuous web-surfing.
Lenovo	<a href="#">Ideapad 110</a>	3 Cell 24 Watt Hour Li-Polymer	Up to 3 hours of video playback.
Lenovo	<a href="#">Ideapad 310</a>	30Wh	Up to 5 hours of video playback.
Lenovo	<a href="#">Ideapad 320s</a>	No info	Up to 9 hours (MobileMark)
Lenovo	<a href="#">Ideapad 320</a>	No info	5 hours
Lenovo	<a href="#">Ideapad 510</a>	2 Cell 39 Watt Hour Li-Polymer	5 hours
Lenovo	<a href="#">Ideapad 520</a>	2 Cell 39 Watt Hour Li-Polymer	5 hours
Lenovo	<a href="#">Ideapad 720S</a>	4 Cell 79 Watt Hour Li-Polymer	9 hours
Lenovo	<a href="#">Ideapad Y700</a>	4 Cell 60 Watt Hour Li-Polymer	No official claim.
Lenovo	<a href="#">Legion Y520</a>	3 Cell 45 Watt Hour Li-Polymer	Up to 4 hours
Lenovo	<a href="#">Legion Y720</a>	4 Cell 60 Watt Hour Li-Polymer	Up to 5 hours

Brand	Model	Battery info	Battery life claims
Lenovo	<a href="#">ThinkPad P50</a>	6 cell 90 Watt Hour Li-Polymer	No official claim. <a href="#">Notebook Check</a> claims 14 hours (Battery Eater Reader's Test).
Lenovo	<a href="#">ThinkPad P51</a>	6 cell 90 Watt Hour Li-Polymer	No official claim. <a href="#">LAPTOP Magazine</a> claims 8 hours, 2 minutes.
Lenovo	<a href="#">ThinkPad P51s</a>	Integrated Li-Polymer 4-cell (32Wh) Optional: (48Wh or 72Wh)	No official claim. Notebook Check claims 26 hours, 21 minutes with dual batteries.
Lenovo	ThinkPad P52s	Li-ion 4-cell (32 Wh), rear battery Li-ion 3-cell (24 Wh)	No official claim. No 3rd party claims.
Lenovo	<a href="#">ThinkPad E570</a>	Li-Ion 4-cell (41WHr)	No official claim. <a href="#">PC Connection</a> claims 7 hours.
Lenovo	<a href="#">ThinkPad E575</a>	Li-Ion 4-cell (41WHr)	6.5 hours
Lenovo	<a href="#">ThinkPad E580</a>	3 Cell Li-Polymer Battery 45WH	13 hours
Lenovo	<a href="#">ThinkPad T570</a>	Integrated Li-Polymer 4-cell (32Wh) Rear: (24Wh, 48Wh, or 72Wh)	27 Hours (32 WHr + 72 WHr)
Lenovo	<a href="#">ThinkPad T580</a>	Integrated Li-ion 4-cell (32 Wh) Rear Li-ion 3-cell (24 Wh) or optional 72WH	13.8 hours - Standard with dual battery (32Wh + 24Wh) 26.1 hours - Optional with dual battery (32Wh + 72Wh)
Lenovo	<a href="#">ThinkPad L580</a>	Li-ion 3-cell (45 Wh)	11 hours
Lenovo	<a href="#">ThinkPad L570</a>	Li-Ion 6-cell (48Wh)	15.5 hours
LG	<a href="#">gram (15Z980)</a>	4 cell lithium ion polymer 72Wh	19 hours
LG	<a href="#">gram (15Z975)</a> <a href="#">(15Z970)</a>	4 cell lithium ion polymer 60.06Wh	11.8 hours

Brand	Model	Battery info	Battery life claims
Sager	<a href="#">NP9155</a>	Removable 8 cell Smart Lithium-Ion battery pack 82Wh	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP8952</a>	Embedded 4 cells Polymer battery pack 55WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP8157</a>	Embedded 4 cells Polymer battery pack 60WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP8156</a>	Embedded 4 cells Polymer battery pack 60WH	No official claim. <a href="#">Tom's Hardware</a> claims 1.6 hours.
Sager	<a href="#">NP6850</a>	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP7850</a>	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. <a href="#">XOTIC PC</a> claims 3+ hours.
Sager	<a href="#">NP5855</a>	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP8950</a>	4 cells Polymer battery pack 55WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Sager	<a href="#">NP8952</a>	4 cells Polymer battery pack 55WH	No official claim. <a href="#">XOTIC PC</a> claims 2+ hours.
Samsung	<a href="#">Notebook 5 NP530E5M-X02US</a>	3 cell Li-ion 43Wh	Up to 8.5 hours (MM2014)
Samsung	<a href="#">Notebook 5 NP500R5L-M02US</a>	43Wh	7 hours (MM2014)
Samsung	<a href="#">Notebook 9 NP900X5N-X01US</a>	66Wh	Up to 15 hours
Samsung	<a href="#">Notebook 9 NP900X5N-L01US</a>	6 cell Li-ion 66 wh	No official claim. <a href="#">B&amp;H</a> claims up to 12 hours.
Samsung	Notebook 9 NP900X5T-K01US	6 cell Li-ion 75 wh	19.5 hours (MM2014)
Samsung	<a href="#">Notebook 9 NP900X5L-K02US</a>	4 cell 39Whr	12 hours (MM2007)
Samsung	<a href="#">Notebook 9 Pro NP940X5M-X01US</a>	4 cell 54 Wh	11.5 hours (MM2014)

Brand	Model	Battery info	Battery life claims
Samsung	<a href="#">Notebook Odyssey NP800G5M-X02US</a> <a href="#">NP800G5M-X01US</a>	43 Wh	Up to 9.5 hours (MM2014)
Toshiba	<a href="#">Tecra C50 01301H</a> <a href="#">D1512</a> <a href="#">C1510</a> <a href="#">C1511</a> <a href="#">C1513</a>	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	Up to 9.08 hours
Toshiba	<a href="#">Tecra A50 C1543</a> <a href="#">D1532</a>	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	Up to 9.08 hours
Toshiba	<a href="#">Tecra A50 D1534</a> <a href="#">D1538</a>	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	No official claim. <a href="#">LAPTOP Magazine</a> claims 5 hours, 59 minutes.
Toshiba	<a href="#">Tecra A50 A50-E1524</a>	4-cell 45 Wh	No official claim No 3rd party claims
Toshiba	<a href="#">Tecra Z50 D1552</a>	4-cell 45 Wh	8.33 hours (MM2014)

Figure 1: Battery information. All links and data current as of 02/22/2018.

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Dell	<a href="#">XPS 15 9570</a>	12.0– 17.0	0.46–0.66	357 x 235	14.06 x 9.25	130.055	4.0	1.80
Acer	<a href="#">Aspire 3 (A315-21-95KF)</a>		0.85		15.02 x 10.20	153.2	4.63	
Acer	<a href="#">Aspire 3 (A315-51-31GK)</a> <a href="#">(A315-31-C514)</a> <a href="#">(A315-51-31RD)</a> <a href="#">(A315-31-C8WK)</a> <a href="#">(A315-51-580N)</a> <a href="#">(A315-51-51SL)</a> <a href="#">(A315-31-POSY)</a> <a href="#">(A315-31-C58L)</a> <a href="#">(A315-51-380T)</a> <a href="#">(A315-51-C0DT)</a> <a href="#">(A315-51-C06Z)</a> <a href="#">(A315-51-582F)</a> <a href="#">(A315-51-39CG)</a>		0.85		15.02 x 10.20	153.2	4.63	
Acer	<a href="#">Aspire 3 (A315-51-533U)</a> <a href="#">(A315-52-50N9)</a>		0.85		15.02 x 10.20	153.2	4.63	
Acer	<a href="#">Aspire 3 (A315-51-57Z4)</a> <a href="#">(A315-51-52S5)</a> <a href="#">(A315-51-514S)</a> <a href="#">(A315-51-38QP)</a> <a href="#">(A315-51-361T)</a> <a href="#">(A315-51-30AT)</a> <a href="#">(A315-51-C7CF)</a>		0.82		15.02 x 10.20	153.2	4.63	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	<a href="#">Aspire 3 (A315-21-47B4)</a>		0.85		15.02 x 10.20	153.2	4.63	
Acer	<a href="#">Aspire 3 (A315-21-4098)</a> <a href="#">(A315-21-92FX)</a>		0.85		15.02 x 10.20	153.2	4.63	
Acer	<a href="#">Aspire 5 (A515-51G-515J)</a> <a href="#">(A515-51G-89LS)</a> <a href="#">(A515-51G-5067)</a> <a href="#">(A515-51G-5504)</a>		0.82		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51-596K)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51-5398)</a> <a href="#">(A515-51-513F)</a>		0.82		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51G-71RS)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51G-5536)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51G-58SA)</a> <a href="#">(A515-51G-52R1)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-51-84PS)</a>		0.82		15.02 x 10.35	155.45	4.63	
Acer	<a href="#">Aspire 5 (A515-51G-84ZP)</a>		0.82		15.02 x 10.35	155.45	4.85	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	<a href="#">Aspire 5 (A515-51G-503E)</a> <a href="#">(A515-51G-53F6)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A515-41G-F3FL)</a>		0.85		15.02 x 10.35	155.45	4.85	
Acer	<a href="#">Aspire 5 (A715-71G-71NC)</a>		0.94		15.02 x 10.35	155.45	5.29	
Acer	<a href="#">Aspire 5 (A515-51-50RR)</a> <a href="#">(A515-51G-5488)</a>		0.85		15.02 x 10.35	155.5	4.85	
Acer	<a href="#">Aspire 5 (A515-51-53TH)</a> <a href="#">(A515-51-89UP)</a>		0.85		15.02 x 10.35	155.5	4.85	
Acer	<a href="#">Aspire 5 (A515-51-50XZ)</a>		0.85		15.02 x 10.35	155.5	4.63	
Acer	<a href="#">Aspire 7 (A715-71G-71L2)</a> <a href="#">(A715-71G-7588)</a>		0.94		15.02 x 10.35	155.5	5.29	
Acer	<a href="#">Aspire E (E5-576G-81GD)</a> <a href="#">(E5-576G-825K)</a>		1.19		15.02 x 10.20	153.2	5.27	
Acer	<a href="#">Aspire E (E5-576G-5762)</a> <a href="#">(E5-576G-56HU)</a>		1.19		15.02 x 10.20	153.2	5.27	
Acer	<a href="#">Aspire E (E5-575T-33CF)</a>		1.19		15.02 x 10.20	153.2	5.29	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	<a href="#">Aspire E (E5-553-T5K4)</a> <a href="#">(E5-553G-F8EF)</a> <a href="#">(E5-553G-14QY)</a>		1.19		15.02 x 10.2	153.2	5.27	
Acer	<a href="#">Aspire E (E5-575-33BM)</a>		1.19		15.02 x 10.2	153.2	5.27	
Acer	<a href="#">Aspire E (E5-553-T2XN)</a> <a href="#">(E5-575-72N3)</a>		1.19		15.02 x 10.2	153.2	4.92	
Acer	<a href="#">Aspire E (E5-575T-3678)</a>		1.19		15.02 x 10.2	153.2	4.92	
Acer	<a href="#">Aspire ES (ES1-533-C55P)</a> <a href="#">(ES1-572-3729)</a>		0.97		15.03 x 10.16	152.7	5.29	
Acer	<a href="#">Aspire F 15 (F5-573-7630)</a>		1.12		15.02 x 10.2	153.2	5.29	
Acer	<a href="#">Aspire F 15 (F5-573G-77BJ)</a>		1.12		15.02 x 10.2	153.2	5.29	
Acer	<a href="#">Aspire V Nitro (VN7-593G-76SS)</a>		0.98		15.39 x 10.47	161.1	5.73	
Acer	<a href="#">Nitro 5 (AN515-51-75A2)</a> <a href="#">(AN515-51-5594)</a> <a href="#">(AN515-51-55WL)</a> <a href="#">(AN515-51-78C6)</a> <a href="#">(AN515-51-72HL)</a>		1.05		15.35 x 10.47	160.7	5.95	



Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	<a href="#">Nitro 5 (AN515-51-504A)</a> <a href="#">(AN515-51-74U4)</a> <a href="#">(AN515-51-50PN)</a> <a href="#">(AN515-51-79DZ)</a> <a href="#">(AN515-51-71LP)</a> <a href="#">(AN515-51-76SX)</a> <a href="#">(AN515-51-56U0)</a> <a href="#">(AN515-51-522L)</a> <a href="#">(AN515-51-70V4)</a>		1.05		15.35 x 10.47	160.7	5.95	
Acer	<a href="#">Nitro 5 (AN515-41-F03E)</a> <a href="#">(AN515-41-F6VS)</a>		1.05		15.35 x 10.47	160.7	5.95	
Acer	<a href="#">Predator 15 (G9-593-735L)</a>		1.52		15.4 x 11.8	181.7	8.16	
Acer	<a href="#">Predator 15 (G9-593-77WF)</a> <a href="#">(G9-593-71EH)</a>		1.52		15.4 x 11.8	181.7	8.16	
Acer	<a href="#">Predator 15 (G9-593-73N6)</a>		1.52		15.4 x 11.8	181.7	8.16	
Acer	<a href="#">Predator Helios 300 (G3-571-77QK)</a>		1.05		15.4 x 10.5	161.7	5.95	
Acer	<a href="#">Predator Helios 300 (G3-572-72YF)</a> <a href="#">(G3-572-78JY)</a> <a href="#">(G3-572-7526)</a> <a href="#">(G3-571-73H3)</a>		1.05		15.4 x 10.5	161.7	5.95	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	<a href="#">Predator Triton 700 (PT715-51-732Q)</a> <a href="#">(PT715-51-761M)</a>		0.74		15.50 x 10.50	162.8	5.29	
Acer	<a href="#">Swift 3 (SF315-51-518S)</a>		0.74		14.59 x 10.04	146.5	4.41	
Acer	<a href="#">Swift 3 (SF315-51G-51CE)</a>		0.74		14.59 x 10.04	146.5	4.63	
Acer	<a href="#">TravelMate P6 (TMP658-MG-749P)</a>		0.88		15.00 x 10.02	150.3	4.6	
Acer	<a href="#">TravelMate P6 (TMP658-M-70S3)</a>		0.88		15.00 x 10.02	150.3	4.6	
Acer	<a href="#">TravelMate P6 (TMP658-M-59SY)</a>		0.88		15.00 x 10.02	150.3	5.07	
Aorus	<a href="#">X5</a>	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	<a href="#">X5S v5</a>	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	<a href="#">X5 v6</a>		0.9		15.40 x 10.70	164.8	5.51	
Aorus	<a href="#">X5 v7</a>		0.9		15.40 x 10.70	164.8	5.51	
Aorus	<a href="#">X5 MD</a>		0.9		15.40 x 10.70	164.8	5.51	
Apple	<a href="#">MacBook Pro with Retina Display</a>	18	0.71	358.9 x 247.1	14.13 x 09.73	137.48	4.49	2.04
Apple	<a href="#">MacBook Pro with Touch Bar</a>	15.5	0.61	349.3 x 240.7	13.75 x 09.48	130.4	4.02	1.83
ASUS	<a href="#">ROG GL553VD</a>		1.18		15.07 x 10.03	151.1	5.51	
ASUS	<a href="#">ROG GL553VE</a>		0.8		15.07 x 10.03	151.1	5.51	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
ASUS	<a href="#">ROG GL502VS</a>		1.18		15.35 x 10.47	160.7	5.2	
ASUS	<a href="#">ROG GL503 (ROG Strix Hero Edition)</a> <a href="#">(ROG Strix SCAR Edition)</a>		0.9		15.10 x 10.30	155.5	5.1	
ASUS	<a href="#">ROG ZEPHYRUS (GX501)</a>		0.67 - 0.7		14.90 x 10.30	153.5	5	
ASUS	<a href="#">ZenBook UX510UW</a>		0.78		15.03 x 10.03	150.7	4.4	
ASUS	<a href="#">ZenBook Pro UX550VE</a>		0.74		14.37 x 09.88	142	3.97	1.8
ASUS	<a href="#">VivoBook S15 S510UA</a>		0.7		14.20 x 09.60	136.3	1.5	
ASUS	<a href="#">VivoBook Pro 15 N580VD</a>		0.8		15.00 x 10.00	150	4.39 Non Touch 5.05 Touch	
ASUS	<a href="#">VivoBook Max X541UA</a>		1.08		15.01 x 09.90	148.6	4.4	
CHUWI	<a href="#">LapBook 15.6</a>	9 mm - 22 mm	0.35 - 0.87	371 x 240	14.61 x 09.45	138.1	4.1	1.86
Fujitsu	<a href="#">Lifebook E557</a>		0.95-1.24		14.70 x 09.80	144.1	4.9	
Fujitsu	<a href="#">Lifebook E558</a>		0.94		14.92 x 09.80	150.4	4.5	
Fujitsu	<a href="#">Lifebook U758</a>		0.76		14.88 x 10.08	150	3.7	
Fujitsu	<a href="#">Lifebook U757</a>		0.76		14.88 x 10.08	150	3.7	
HP	<a href="#">15t</a>		0.94		14.96 x 09.99	149.5	4.21	
HP	<a href="#">250 G6</a>		0.93		14.96 x 09.99	149.5	4.14	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
HP	<a href="#">255 G6</a>		0.93		14.96 x 09.99	149.5	4.14	
HP	<a href="#">OMEN 15t</a>		0.96		15.06 x 09.94	143.9	4.85	
HP	<a href="#">OMEN 15 -ce051nr</a>		0.98		15.30 x 10.85	166	5.77	
HP	<a href="#">HP Pavilion Power Laptop - 15t Quad</a>		0.95		14.88 x 09.93	147.8	4.87	
HP	<a href="#">Pavilion 15t</a>		0.89		14.88 x 09.93	147.8	4.21	
HP	<a href="#">Pavilion 15z</a>		0.94		14.96 x 09.99	149.5	4.1	
HP	<a href="#">Pavilion 15-cc555nr</a>		0.78		14.88 x 09.93	147.8	4.21	
HP	<a href="#">EliteBook 755 G4</a>		0.76		15.10 x 10.10	152.51	4.06	
HP	<a href="#">EliteBook 850 G3</a>		0.76 (non-touch) 0.82 (touch)		15.09 x 10.10	152.4	4.06 (non-touch) 4.54 (touch)	
HP	<a href="#">EliteBook 850 G4</a>		0.76 (non-touch) 0.82 (touch)		15.10 x 10.10	150.1	4.06 (non-touch) 4.54 (touch)	
HP	<a href="#">EliteBook 850 G5</a>		0.72		14.60 x 09.91	144.6	3.94	
HP	<a href="#">Envy 15t</a>		0.71		14.96 x 10.04	150.1	4.8	
HP	<a href="#">Envy 15-as-152nr</a>		0.71		14.96 x 10.04	150.1	4.32	
HP	<a href="#">ProBook 450 G3</a>		0.94-0.98 (non touch) 1.00-1.04 (touch)		14.88 x 10.41 (non-touch) 14.88 x 10.42 (touch)	154.9 (non-touch) 155.0 (touch)	4.56	
HP	<a href="#">ProBook 450 G5</a>		0.82		14.80 x 10.40	153.9	4.64	
HP	<a href="#">ProBook 650 G2</a>		1.07		14.88 x 10.11	150.4	5.1	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
HP	<a href="#">ProBook 650 G3</a>		1.07		14.88 x 10.11	150.4	5.1	
HP	<a href="#">ProBook 650 G4</a>		0.95		14.85 x 10.12	150.2	4.8	
HP	<a href="#">ProBook 655 G3</a>		1.07		14.88 x 10.11	150.4	5.1	
HP	<a href="#">Zbook 15 G3</a>		1		15.20 x 10.40	158.08	5.8	
HP	<a href="#">Zbook 15u G3</a>		0.78		15.09 x 10.10	152.4	4.18	
HP	<a href="#">Zbook 15u G4</a>		0.78		15.09 x 10.10	152.4	4.18	
HP	<a href="#">Zbook Studio G3</a>		0.71		14.76 x 10.04	148.2	4.4	
HP	<a href="#">Zbook Studio G4</a>		0.71		14.76 x 10.04	148.2	4.6	
Lenovo	<a href="#">Ideapad 110</a>		0.9		14.88 x 10.43	155.2	4.8	
Lenovo	<a href="#">Ideapad 310</a>		0.9		14.92 x 10.24	152.7	4.9	
Lenovo	<a href="#">Ideapad 320s</a>		0.78		14.27 x 09.92	141.5	4.88	
Lenovo	<a href="#">Ideapad 320</a>		0.9		14.90 x 10.20	152	4.85	
Lenovo	<a href="#">Ideapad 510</a>		0.9		14.92 x 10.24	152.8	4.63	
Lenovo	<a href="#">Ideapad 520</a>		0.9		14.89 x 10.20	151.9	4.8	
Lenovo	<a href="#">Ideapad 720S</a>		0.7		14.12 x 9.580	135.3	4.8	
Lenovo	<a href="#">Ideapad Y700</a>		1.02		15.23 x 10.90	166	5.7	
Lenovo	<a href="#">Legion Y520</a>		1.09		14.96 x 10.43	156	5.29	
Lenovo	<a href="#">Legion Y720</a>		1.14		14.96 x 10.90	163.1	7.05	
Lenovo	<a href="#">ThinkPad P50</a>		1.02		14.86 x 09.93	147.6	5.6	
Lenovo	<a href="#">ThinkPad P51</a>		0.96 - 1.02		14.86 x 09.93	147.6	5.6	
Lenovo	<a href="#">ThinkPad P51s</a>		0.78 - 0.79		14.40 x 09.95	143.3	4.3	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Lenovo	<a href="#">ThinkPad P52s</a>		0.78 - 0.79		14.4 x 9.95	143.3	4.3	
Lenovo	<a href="#">ThinkPad E570</a>		0.9		14.92 x 10.27	153.2	5.1	
Lenovo	<a href="#">ThinkPad E575</a>		1		14.92 x 10.27	153.2	5.1	
Lenovo	<a href="#">ThinkPad E580</a>		0.78		14.53 x 9.92	144.1	4.7	
Lenovo	<a href="#">ThinkPad T570</a>		0.78 - 0.80		14.4 x 9.9	142.6	4.5	
Lenovo	<a href="#">ThinkPad T580</a>		0.78		14.4 x 9.9	142.6	4.29	
Lenovo	<a href="#">ThinkPad L580</a>		0.9		14.8 x 10	148	4.46	
Lenovo	<a href="#">ThinkPad L570</a>		1.1		14.8 x 10	148	5.24	
LG	<a href="#">gram (15Z980)</a>		0.7		14.1 x 9.0	126.9	2.41	
LG	<a href="#">gram (15Z975)</a> <a href="#">(15Z970)</a>		0.6		14.1 x 9.0	126.9	2.4	
Sager	<a href="#">NP9155</a>		1.5		15.20 x 10.32	156.8	7.5	
Sager	<a href="#">NP8952</a>		0.73		14.96 x 9.80	146.6	4.19	
Sager	<a href="#">NP8157</a>		1.13		15.16 x 10.67	166.4	5.84	
Sager	<a href="#">NP8156</a>		0.98		15.16 x 10.67	161.8	5.5	
Sager	<a href="#">NP6850</a>		1.06		14.88 x 10.51	156.4	5.51	
Sager	<a href="#">NP7850</a>		1.18		14.88 x 10.51	156.4	5.51	
Sager	<a href="#">NP5855</a>		0.98		14.88 x 10.51	156.4	5.51	
Sager	<a href="#">NP8950</a>		0.73		14.96 x 9.80	146.6	4.19	
Sager	<a href="#">NP8952</a>		0.73		14.96 x 9.80	146.6	4.19	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Samsung	<a href="#">Notebook 5 NP530E5M-X02US</a>		0.98		14.76 x 09.76	144.1	4.37	
Samsung	<a href="#">Notebook 5 NP500R5L-M02US</a>		0.82		14.76 x 09.76	144.1	4.19	
Samsung	<a href="#">Notebook 9 NP900X5N-X01US</a>		0.61		13.70 x 09.03	123.7	2.73	
Samsung	<a href="#">Notebook 9 NP900X5N-L01US</a>		0.61		13.70 x 09.03	123.7	2.6	
Samsung	<a href="#">Notebook 9 NP900X5T-K01US</a>		0.61		13.70 x 09.03	123.7	2.76	
Samsung	<a href="#">Notebook 9 NP900X5L-K02US</a>		0.57		13.64 x 09.32	127.1	2.9	
Samsung	<a href="#">Notebook 9 Pro NP940X5M-X01US</a>		0.67		13.67 x 09.41	128.6	3.79	
Samsung	<a href="#">Notebook Odyssey NP800G5M-X02US</a> <a href="#">NP800G5M-X01US</a>		0.94		14.88 x 10.24	152.3	5.51	
Toshiba	<a href="#">Tecra C50 01301H</a> <a href="#">D1512</a> <a href="#">C1510</a> <a href="#">C1511</a> <a href="#">C1513</a>		0.95		14.90 x 10.20	151.9	4.96	
Toshiba	<a href="#">Tecra A50 C1543</a> <a href="#">D1532</a>		0.9		14.90 x 10.20	151.9	4.96	

Brand	Model	Thickness		Dimensions		total area (in <sup>2</sup> )	Weight	
		mm	inches	mm	inches		lbs	kg
Toshiba	<a href="#">Tecra A50 D1534</a> <a href="#">D1538</a>		0.95		14.90 x 10.20	151.9	4.96	
Toshiba	<a href="#">Tecra A50 A50-E1524</a>		0.95		14.94 x 10.13	151.3	4.85	
Toshiba	<a href="#">Tecra Z50 D1552</a>		0.92		14.90 x 10.20	151.9	4.61	

Figure 2: Dimensional information. All links and data current as of 03/30/2018.



Brand	Model	Processor	Graphics card
Dell	<a href="#">XPS 15 9570</a>	7th generation Intel Core processors up to quad-core i7	NVIDIA GeForce GTX 1050
Acer	<a href="#">Aspire 5 (A515-51G-515J)</a> <a href="#">(A515-51G-89LS)</a> <a href="#">(A515-51G-5067)</a> <a href="#">(A515-51G-5504)</a>	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	<a href="#">Aspire 5 (A515-51-596K)</a>	Intel Core i5-8250U	
Acer	<a href="#">Aspire 5 (A515-51G-71RS)</a>	Intel Core i5-7500U	NVIDIA GeForce 940MX
Acer	<a href="#">Aspire 5 (A515-51G-5536)</a>	Intel Core i5-7200U	NVIDIA GeForce 940MX
Acer	<a href="#">Aspire 5 (A515-51G-58SA)</a> <a href="#">(A515-51G-52R1)</a>	Intel Core i5-7200U	NVIDIA GeForce MX150
Acer	<a href="#">Aspire 5 (A515-51G-84ZP)</a>	Intel Core i7-8550U	NVIDIA GeForce MX150
Acer	<a href="#">Aspire 5 (A515-51G-503E)</a> <a href="#">(A515-51G-53F6)</a>	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	<a href="#">Aspire 5 (A715-71G-71NC)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
Acer	<a href="#">Aspire 7 (A715-71G-71L2)</a> <a href="#">(A715-71G-7588)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti
Acer	<a href="#">Aspire E (E5-576G-81GD)</a> <a href="#">(E5-576G-825K)</a>	Intel Core i7-8550U	NVIDIA GeForce MX150
Acer	<a href="#">Aspire E (E5-576G-5762)</a> <a href="#">(E5-576G-56HU)</a>	Intel Core i5-8250U	NVIDIA GeForce MX150

Brand	Model	Processor	Graphics card
Acer	<a href="#">Aspire F 15 (F5-573G-77BJ)</a>	Intel Core i5-7500U	NVIDIA GeForce 950M
Acer	<a href="#">Aspire V Nitro (VN7-593G-76SS)</a>	Intel Core i7-7700HQ	
Acer	<a href="#">Nitro 5 (AN515-51-75A2)</a> <a href="#">(AN515-51-5594)</a> <a href="#">(AN515-51-55WL)</a> <a href="#">(AN515-51-78C6)</a> <a href="#">(AN515-51-72HL)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
Acer	<a href="#">Nitro 5 (AN515-51-504A)</a> <a href="#">(AN515-51-74U4)</a> <a href="#">(AN515-51-50PN)</a> <a href="#">(AN515-51-79DZ)</a> <a href="#">(AN515-51-71LP)</a> <a href="#">(AN515-51-76SX)</a> <a href="#">(AN515-51-56U0)</a> <a href="#">(AN515-51-522L)</a> <a href="#">(AN515-51-70V4)</a>	Intel Core i5-7300HQ Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti NVIDIA GeForce GTX 1050
Acer	<a href="#">Nitro 5 (AN515-41-F03E)</a> <a href="#">(AN515-41-F6VS)</a>	AMD FX-Series FX-9830P	AMD Radeon RX 550
Acer	<a href="#">Predator 15 (G9-593-735L)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060
Acer	<a href="#">Predator 15 (G9-593-77WF)</a> <a href="#">(G9-593-71EH)</a>	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1070
Acer	<a href="#">Predator 15 (G9-593-73N6)</a>	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1060
Acer	<a href="#">Predator Helios 300 (G3-571-77QK)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
Acer	<a href="#">Predator Helios 300</a> <a href="#">(G3-572-72YF)</a> <a href="#">(G3-572-78JY)</a> <a href="#">(G3-572-7526)</a> <a href="#">(G3-571-73H3)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060
Acer	<a href="#">Predator Triton 700</a> <a href="#">(PT715-51-732Q)</a> <a href="#">(PT715-51-761M)</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1080 NVIDIA GeForce GTX 1060
Acer	<a href="#">TravelMate P6</a> <a href="#">(TMP658-MG-749P)</a>	Intel Core i7-6500U	NVIDIA GeForce 940M
Aorus	<a href="#">X5</a>	5th Generation Intel® Core™ i7-5700HQ	Dual NVIDIA GeForce GTX 965M
Aorus	<a href="#">X5S v5</a>	6th Generation Intel® Core™ i7-6700HQ	NVIDIA GeForce GTX 980M
Aorus	<a href="#">X5 v6</a>	6th Generation Intel® Core™ i7-6820HK	NVIDIA GeForce GTX 1070 8GB
Aorus	<a href="#">X5 v7</a>	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1070
Aorus	<a href="#">X5 MD</a>	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1080
Apple	<a href="#">MacBook Pro with Retina Display</a>	2.2-3.4GHz quad-core Intel i7 2.5-3.7GHz quad-core Intel i7 2.8-4.0GHz quad-core Intel i7	Intel Iris Pro Graphics
Apple	<a href="#">MacBook Pro with Touch Bar</a>	2.8-3.8GHz quad-core Intel i7 2.9-3.9GHz quad-core Intel i7 3.1-4.1GHz quad-core Intel i7	AMD Radeon Pro 555 Intel HD Graphics 630 AMD Radeon Pro 560
ASUS	<a href="#">ROG GL553VD</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 2GB/4GB
ASUS	<a href="#">ROG GL553VE</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050Ti 4GB
ASUS	<a href="#">ROG GL502VS</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1070

Brand	Model	Processor	Graphics card
ASUS	<a href="#">ROG GL503</a> <a href="#">(ROG Strix Hero Edition)</a> <a href="#">(ROG Strix SCAR Edition)</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
ASUS	<a href="#">ROG ZEPHYRUS (GX501)</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1080
ASUS	<a href="#">ZenBook UX510UW</a>	Intel Core i7-6500U Intel Core i5-6200U	NVIDIA GeForce GTX 960M
ASUS	<a href="#">ZenBook Pro UX550VE</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 Ti
ASUS	<a href="#">VivoBook Pro 15 N580VD</a>	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
Fujitsu	<a href="#">Lifebook U758</a>	Intel Core i7-8650U	
HP	<a href="#">OMEN 15t</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
HP	<a href="#">OMEN 15 -ce051nr</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
HP	<a href="#">HP Pavilion Power Laptop - 15t Quad</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
HP	<a href="#">EliteBook 850 G3</a>	Intel Core i7-6600U Intel Core i7-6500U Intel Core i5-6300U Intel Core i5-6200U Intel Core i3-6100U	AMD Radeon R7 M365X
HP	<a href="#">EliteBook 850 G4</a>	Intel Core i7-7600U Intel Core i7-7500U Intel Core i5-7300U Intel Core i5-7200U Intel Core i3-7100U	AMD Radeon R7 M465

Brand	Model	Processor	Graphics card
HP	<a href="#">EliteBook 850 G5</a>	Intel Core i7-8650U Intel Core i7-8550U Intel Core i5-8350U Intel Core i5-8250U Intel Core i5-7300U Intel Core i5-7200U	AMD Radeon RX 540
HP	<a href="#">ProBook 450 G5</a>	Intel® Core™ i7-8550U	NVIDIA GeForce 930MX
HP	<a href="#">ProBook 650 G2</a>	Intel Core i7-6600U Intel Core i5-6300U	AMD Radeon R7 M365X
HP	<a href="#">ProBook 650 G4</a>	Intel Core i7-8650U Intel Core i7-8550U Intel Core i5-8350U Intel Core i5-8250U Intel Core i5-7300U Intel Core i5-7200U	AMD Radeon RX540
HP	<a href="#">Zbook 15 G3</a>	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ Intel Core i5-6440HQ	NVIDIA Quadro M2000M
HP	<a href="#">Zbook 15u G3</a>	Intel Core i7-6500U Intel Core i7-6600U Intel Core i5-6300U Intel Core i5-6200U	AMD FirePro W4190M
HP	<a href="#">Zbook 15u G4</a>	Intel Core i7-7600U Intel Core i7-7500U Intel Core i5-7300U Intel Core i5-7200U	AMD FirePro W4190M
HP	<a href="#">Zbook Studio G3</a>	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ	NVIDIA Quadro M1000M

Brand	Model	Processor	Graphics card
Lenovo	<a href="#">Ideapad 510</a>	Intel Core i7-6500U	NVIDIA GeForce 940MX
Lenovo	<a href="#">Ideapad 520</a>	Intel Core i7-7500U	NVIDIA GeForce GT 940MX
Lenovo	<a href="#">Ideapad 720S</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
Lenovo	<a href="#">Ideapad Y700</a>	Intel Core i7-6700HQ	NVIDIA GeForce GTX 960M
Lenovo	<a href="#">Legion Y520</a>	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1050 Ti
Lenovo	<a href="#">Legion Y720</a>	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1060
Lenovo	<a href="#">ThinkPad P50</a>	Intel Xeon E3-1505M v5	NVIDIA Quadro M2000M
Lenovo	<a href="#">ThinkPad P51</a>	Intel Core i7-7820HQ Intel Xeon E3-1535v6	NVIDIA Quadro M1200
Lenovo	<a href="#">ThinkPad P51s</a>	Intel Core i7-7600U	NVIDIA Quadro M520M
Lenovo	<a href="#">ThinkPad P52s</a>	Intel Core i7-8650U	Nvidia Quadro P500
Lenovo	<a href="#">ThinkPad E570</a>	Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce GTX 950M
Lenovo	<a href="#">ThinkPad T580</a>	Intel Core i7-8650U	NVIDIA GeForce MX 150
Lenovo	<a href="#">ThinkPad L580</a>	Intel Core i5-8350U	
LG	<a href="#">gram (15Z980)</a>	Intel Core i7-8550U	
LG	<a href="#">gram (15Z975)</a> <a href="#">(15Z970)</a>	Intel Core i5-8250U	

Brand	Model	Processor	Graphics card
Sager	<a href="#">NP9155</a>	8th Gen Intel® Core™ i7-8700 8th Gen Intel® Core™ i7-8700K	NVIDIA GeForce GTX 1070
Sager	<a href="#">NP8952</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1070
Sager	<a href="#">NP8157</a>	7th Gen Intel® Core™ i7-7700HQ 7th Gen Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1070
Sager	<a href="#">NP8156</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060
Sager	<a href="#">NP6850</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1050
Sager	<a href="#">NP7850</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060
Sager	<a href="#">NP5855</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1050
Sager	<a href="#">NP8950</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060
Sager	<a href="#">NP8952</a>	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1070
Samsung	<a href="#">Notebook 9 NP900X5N-X01US</a>	Intel Core i7 8th Gen Mobile processor	
Samsung	<a href="#">Notebook Odyssey NP800G5M-X02US NP800G5M-X01US</a>	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
Toshiba	<a href="#">Tecra A50 A50-E1524</a>	Intel Core i5-8250U	

Figure 3: Processor and graphics card information. All links and data current as of 03/30/2018.

## ABOUT PRINCIPLED TECHNOLOGIES



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1007 Slater Road, Suite 300  
Durham, NC, 27703  
www.principledtechnologies.com

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