

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®, Fujitsu®, HP, Lenovo®, Sager®, and Samsung®. The tables below compare the systems using publicly available data at each vendor's respective website. We gathered this data on 05/16/2019 at the links provided.

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

- has the longest single-battery life of any 15-inch laptop
- is the smallest 15.6-inch performance laptop¹

Brand	Model	Battery info	Battery life claims
Dell	XPS 15	6 cell Lithium Ion 97Wh	20 hours, 30 minutes with FHD 15 hours, 30 minutes with UHD
Acer	Aspire 3 (A315-21-63F1)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-21-93EY)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-21-927W) (A315-21-2476)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-31-C514) (A315-31-C8WK)	2 cell Lithium Ion 4810 mAh	6.5 hours
Acer	Aspire 3 (A315-51-514S) (A315-51-C7CF)	2 cell Lithium Ion 4810 mAh	No official claim. CDW claims 6.5 hours.
Acer	Aspire 3 (A315-51-31RD) (A315-51-582F)	2 cell Lithium Ion 4810 mAh	6.5 hours

¹ There are several smaller Samsung Notebook 9 devices, but those notebooks also have a 15-inch screen as opposed to 15.6 inches. In this report, performance-class refers to laptops possessing an H-level processor or better, as well as a discrete graphics card.



Brand	Model	Battery info	Battery life claims
Acer	Aspire 3 (A315-41-R9J1) (A315-41-R8UU)	2 cell Lithium Ion 4810 mAh	6 hours
Acer	Aspire (A315-53-30BS) (A315-53-55Y1) (A315-53-50Y7) (A315-53-52CF) (A315-53-57WF)	2 cell Lithium Ion 4810 mAh	No official claim. No third-party claim found.
Acer	Aspire 3 (A315-41-R3BW)	2 cell Lithium Ion 4810 mAh	No official claim. No third-party claim found.
Acer	Aspire 3 (A315-53-54R3) (A315-53-30N0) (A315-53-578V) (A315-53-59PF) (A315-53-35ZY) (A315-53-32TF) (A315-53-54XX)	2 cell Lithium Ion 4810 mAh	7 hours
Acer	Aspire 3 (A315-53-56ER)	2 cell Lithium Ion 4810 mAh	7 hours
Acer	Aspire 3 (A315-32-C0S5) (A315-32-C78M) (A315-32-C3KK)	2 cell Lithium Ion 4810 mAh	No official claim. No third-party claim found.
Acer	Aspire 3 (A315-41-R5TS) (A315-41-R14K)	2 cell Lithium Ion 4870 mAh	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Acer	Aspire 3 (A315-41-R132) (A315-41-R98U)	2 cell Lithium Ion 4870 mAh	No official claim. No third-party claim found.
Acer	Aspire 3 (A315-41-R3RF) (A315-41-R0GH)	2 cell Lithium Ion 4810 mAh	6 hours
Acer	Aspire 3 (A315-21-90LC)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 5 (A515-51G-53V6)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-52-526C) (A515-52-50G0)	4 cell Lithium Ion 3320 mAh	7 hours
Acer	Aspire 5 (A515-51-58HD) (A515-51-59VV) (A515-51G-58GZ) (A515-51G-87PK)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-84PS) (A515-51-526S)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-50RR)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-52-5109)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51G-84SN)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 7 (A715-72G-71CT) (A715-72G-79BH)	4 cell Lithium Ion 3220 mAh	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Acer	Aspire 7 (A715-72G-79R9) (A715-72G-73Y5) (A715-72G-72ZR)	4 cell Lithium Ion 3320 mAh	No official claim. No third-party claim found.
Acer	Aspire 7 (A715-73G-75BW)	4-cell Lithium Ion	7 hours
Acer	Aspire 7 (A715-72G-739V)	4 cell Lithium Ion 3320 mAh	No official claim. No third-party claim found.
Acer	Aspire E (E5-575G-57KJ)	4-cell Lithium Ion 2800 mAh	8 hours
Acer	Nitro 5 (AN515-53-7366)	4-cell 3220 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Nitro 5 (AN515-53-70AQ)	4-cell 3320 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Nitro 5 (AN515-42-R5GT) (AN515-42-R5ED)	4-cell 3320 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Nitro 5 (AN515-54-54W2) (AN515-54-51M5)	4-cell Lithium Ion	8 hours
Acer	Predator Helios 300 (PH315-51-78NP) (PH315-51-74V4) (PH315-51-785A) (PH315-51-71FS)	4-cell 3220 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Predator Helios 300 (PH315-51-56KX)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Predator Helios 300 (PH315-52-72RG) (PH315-52-72EV)	4-cell 3720 mAh Lithium Ion	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Acer	Predator Helios 300 Special Edition (PH315-51-757A)	4-cell 3320 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Predator Triton 500 (PT515-51-75L8) (PT515-51-71VV) (PT515-51-765U) (PT515-51-7848) (PT515-51-73EG)	4-cell 5400mAh Lithium Polymer	No official claim. No third-party claim found.
Acer	Predator Triton 700 (PT715-51-761M) (PT715-51-71W9)	3-cell 4670 mAh Lithium Ion	5 hours
Acer	Swift 3 (SF315-52G-82TV)	4-cell 3220 mAh Lithium Ion	10 hours
Acer	Swift 3 (SF315-52G-55MH)	4-cell 3220 mAh Lithium Ion	10 hours
Acer	Swift 3 (SF315-52-81HD) (SF315-52-52YN) (SF315-52-51NV) (SF315-52-88A4)	4-cell 3220 mAh Lithium Ion	10 hours
Acer	Swift 3 (SF315-41-R8PP)	4-cell 3220 mAh Lithium Ion	No official claim. Notebook Check claims 13 hours, 15 minutes (Idle without WLAN).
Acer	Swift 3 (SF315-41G-R6MP)	4-cell 3220 mAh Lithium Ion	8 hours
Acer	Swift 3 (SF315-52G-55MH)	4-cell 3220 mAh	10 hours
Acer	Swift 5 (SF515-51T-507P) (SF515-51T-73TY)	3-cell 4670 mAh Lithium Ion	10 hours

Brand	Model	Battery info	Battery life claims
Acer	TravelMate P2 (TMP215-51-51RB)	3-cell 4319 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	TravelMate P2 (TMP2510-G2-M-54EA) (TMP2510-G2-M-320E)	4-cell 3320 mAh Li-ion	No official claim. No third-party claim found.
Acer	TravelMate P2 (TMP2510-G2-M-891A) (TMP2510-G2-M-56AT) (TMP2510-G2-M-317P)	4-cell 3320 mAh Li-ion	No official claim. No third-party claim found.
Acer	TravelMate P6 (TMP658-MG-749P)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Acer	TravelMate P6 (TMP658-M-70S3)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Aorus	15 (RTX 20 Series) 15-W9 15-X9	Li Polymer 62 Wh	No official claim. No third-party claim found.
Aorus	15(Intel 9th Gen) RTX 15-XA 15-WA 15-SA	Li Polymer 62 Wh	No official claim. No third-party claim found.
Aorus	15 (Intel 9th Gen) GTX 5-GA 5-NA	Li Polymer 51.28Wh	No official claim. No third-party claim found.
Aorus	X5 v7	Li Polymer 94.24Wh	No official claim. Tech Report claims 2.9 hours web browsing.
Aorus	X5 v8	Li Polymer 94.24Wh	No official claim. Notebook Check 4 hours, 54 minutes (Idle without WLAN).
Aorus	X5 MD	Li Polymer 94.24Wh	No official claim. Ultrabook Review claims 3 hours, 10 minutes hours of movie playback.
Aorus	15-W9 15-X9	Li Polymer 62 Wh	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Apple	MacBook Pro with Touch Bar	83.6 Whr Lithium-polymer battery	10 hours wireless web 10 hours iTunes movie playback
ASUS	ROG FX502VM	4 cell 64 Whrs	No official claim. Notebook Check claims 6 hours, 3 minutes (Idle without WLAN).
ASUS	ROG FX503	4 cell 64 Whrs	No official claim. Gaming Central claims 3 hours.
ASUS	ROG GU501	No info	5.5 hours
ASUS	ROG GL553VD	4 cell 48 Whrs Li-ion	No official claim. PC Verge claims 4 hours, 21 minutes.
ASUS	ROG GL553VE	4 cell 48 Whrs Li-ion	No official claim. Amazon claims 5 hours.
ASUS	ROG GL502VS	4 cell 62 Whrs	No official claim. Engadget claims 6 hours.
ASUS	ROG GL502VM	4 Cell	No official claim. Notebook Check claims 5 hours, 15 minutes (Idle without WLAN).
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	4 cell 64 Whrs	No official claim. LAPTOP Magazine claims 3 hours, 32 minutes (browsing web on Wi-Fi).
ASUS	ROG GL504GM (ROG Strix Hero II) (ROG Strix SCAR II)	No info	No official claim. Cnet claims 3 hours, 7 minutes (Video playback).
ASUS	ROG ZEPHYRUS (GX501)	4 cell 50 Whrs Li-ion	6 hours web browsing
ASUS	ROG ZEPHYRUS (GM501)	No info	5.5 hours
ASUS	ROG Zephyrus S (GX531)	4-cell 50 WHrs	No official claim. No third-party claim found.
ASUS	ZenBook UX510UW	48 Wh	No official claim. Ultrabook Review claims 7 hours, 40 minutes (movie app, Wi-Fi on).
ASUS	ZenBook UX533FD	4-cell 73 Wh lithium polymer	Up to 16 hours battery life

Brand	Model	Battery info	Battery life claims
ASUS	ZenBook Pro UX580GE	8 cell 71 Wh lithium polymer	Up to 9.5 hours
ASUS	ZenBook Pro UX550GE	8 cell 71 Wh lithium polymer	Up to 9 hours
ASUS	ZenBook Pro UX580GD	8 cell 71 Wh lithium polymer	Up to 9.5 hours
ASUS	ZenBook Pro UX550VE	73Wh 8 cell	14 hours
ASUS	ASUSPRO P2530UA	87 Whrs 9 cell	No official claim. No third-party claim found.
ASUS	ASUSPRO P2540UA	4 cell 48 Whrs	No official claim. No third-party claim found.
ASUS	ASUSPRO P2540UB	4 cell 48 Whrs or 6 cell 66 Whrs	No official claim. No third-party claim found.
ASUS	ASUSPRO P2540NV	6 cell 72 Whrs	No official claim. No third-party claim found.
ASUS	X55LA	2 cell 37 Whrs	No official claim. No third-party claim found.
ASUS	X507MA	3-cell 33 Whrs	No official claim. No third-party claim found.
ASUS	X507UA	3-cell 33 Whrs	No official claim. No third-party claim found.
ASUS	X507UB	3-cell 33 Whrs	No official claim. No third-party claim found.
ASUS	X507UF	3-cell 33 Whrs	No official claim. No third-party claim found.
ASUS	N550JX	4-cell	No official claim. No third-party claim found.
ASUS	F542UA	38 Whrs	No official claim. No third-party claim found.
ASUS	FX502VM	4 cell	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
ASUS	FX502VD	4 cell 64 Whrs	No official claim. No third-party claim found.
ASUS	FX503	4 cell 64 Whrs	No official claim. No third-party claim found.
ASUS	TUF Gaming FX504	3 cell 48 Whrs	No official claim. No third-party claim found.
ASUS	TUF Gaming FX505	4 cell 48 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook K570UD	48 Whrs	Up to 10 hours
ASUS	R540NA	3 cell 33 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook 15 X505BA	3 cell 42 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook 15 X505ZA	3 cell 42 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook 15 X540NA	3 cell 33 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook 15 X510UQ	3 cell 42 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook S15 S510UA	3 cell 42 Whrs	No official claim. Notebook Check claims 4.5 hours real-world WLAN use.
ASUS	VivoBook S15 S510UN	3 cell 42 Whrs	No official claim. No third-party claim found.
ASUS	VivoBook Pro 15 N580VD	3 cell 47 Whrs	No official claim. PC Verge claims 4 to 5 hours.
ASUS	VivoBook S15 S530UN	3 cell 42 Whrs	No official claim. Laptop Media claims up to 6 hours of video playback.
ASUS	VivoBook S15 S530UA	3 cell 42 Whrs	No official claim. PC Magazine claims 11 hours, 17 minutes with a battery rundown test.
ASUS	VivoBook Pro 15 N580GD	3 cell 47 Whrs	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
CHUWI	LapBook 15.6	10000mAh	5 hours
Fujitsu	Lifebook E558	Lithium polymer battery 4-cell, 50 Wh	Up to 13 hours, 40 minutes
Fujitsu	Lifebook U758	Lithium polymer battery 4-cell (50 Wh)	Up to 12 hours and 10 minutes
HP	15t touch	3 cell, 41 Wh Lithium-ion prismatic	9 hours
HP	Notebook 15-bs121nr	3 cell, 31 Wh Li-ion	Up to 8 hours and 30 minutes
HP	250 G6	4 cell (41 WHr) Lithium-ion Battery	12 hours
HP	250 G7	3 cell, 41 Wh Li-ion	12 hours and 45 minutes
HP	OMEN 15t	4-cell, 70 Wh Li-ion	No official claim. No third-party claim found.
HP	Pavilion 15-cs0041nr	3-cell, 41 Wh Li-ion	Up to 10 hours and 45 minutes
HP	Pavilion Gaming laptop 15t	3-cell, 52.5 Wh Li-ion prismatic 4-cell, 70 Wh Li-ion polymer	Up to 10 hours and 15 mins FHD Up to 7 hours and 30 mins UHD Up to 9 hours and 30 mins Video Playback FHD Up to 5 hours and 45 mins Video Playback UHD
HP	Pavilion Gaming 15-cx0071nr	3-cell, 52.5 Wh Li-ion	Up to 6 hours and 15 mins Up to 6 hours and 30 mins Video Playback
HP	Pavilion 15t	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	Pavilion 15z Touch	3 cell 31 WHr Lithium-ion Battery 4 cell 41 WHr Lithium-ion Battery	No official claim. No third-party claim found.
HP	EliteBook 755 G5	3-cell 56 Wh Li-ion	Up to 12 hours

Brand	Model	Battery info	Battery life claims
HP	EliteBook 850 G5	3-cell (56 WHr) lithium-Ion Battery	No official claim. No third-party claim found.
HP	EliteBook 1050 G1	6-cell, 95.6 Wh Li-ion	Up to 16 hours and 30 minutes
HP	ProBook 450 G6	3-cell, 45 Wh Li-ion	Up to 12 hours and 30 minutes
HP	ProBook 455 G5	3-cell, 48 Wh Li-ion	Up to 9 hours and 45 minutes
HP	ProBook 650 G4	3-cell (48 Whr) Long Life	No official claim. Laptop Media claims 8 hours, 20 minutes web browsing.
HP	Zbook 15v G5	3-cell 452 Wh Li-ion polymer	No official claim. No third-party claim found.
HP	Zbook 15 G5	4 cell 90 Whr Long Life	No official claim. No third-party claim found.
HP	Zbook 15 G3	9-cell (90 WHr) Long Life	No official claim. Notebook Check claims 6 hours, 26 minutes of WiFi surfing.
HP	Zbook 15u G5	3-cell 50 WHr Li-ion	Up to 14 hours
HP	Zbook Studio G5	6-cell 95.6 Wh Li-ion polymer	No official claim. No third-party claim found.
Lenovo	Ideapad 130	No info	5.5 hours (MobileMark 2014)
Lenovo	Ideapad 330	No info	Up to 5.5 hours
Lenovo	Ideapad 340	No info	Up to 9.5 hours (MobileMark 2014)
Lenovo	Ideapad 330s	No info	Up to 7 hours (MobileMark 2014)
Lenovo	Ideapad S340	No info	Up to 8 hours (MobileMark 2014)
Lenovo	Ideapad L340	No info	Up to 9.5 hours (MobileMark 2014)

Brand	Model	Battery info	Battery life claims
Lenovo	Ideapad 530S	No Info	Up to 8 hours
Lenovo	Legion Y530	52.5 WHr	Up to 5 hours
Lenovo	Legion Y730	3 Cell 57 WHr	No official claim. PC Magazine claims 3 hours, 4 minutes.
Lenovo	Legion Y740	3 Cell 57 WHr	Up to 5 hours
Lenovo	ThinkPad P1	4 Cell 80 WHr	Up to 13 hours (MobileMark 2014)
Lenovo	ThinkPad P51	6 Cell 90 WHr	No official claim. No third-party claim found.
Lenovo	ThinkPad P52	6 Cell 90 WHr	Up to 10 hours (MobileMark 2014)
Lenovo	ThinkPad P52s	Li-ion 4-cell (32 Wh), rear battery Li-ion 3-cell (24 Wh)	No official claim. No third-party claim found.
Lenovo	ThinkPad E580	3 Cell Li-Polymer Battery 45WH	13 hours
Lenovo	ThinkPad E590	45 Wh	Up to 12.6 hours
Lenovo	ThinkPad T570	32 Wh	Up to 27 hours - Optional dual battery (32Wh +72Wh)
Lenovo	ThinkPad T580	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	ThinkPad T590	3 cell 57 Wh	Up to 14.98 hours
Lenovo	ThinkPad L580	Li-ion 3-cell (45 Wh)	11 hours
Lenovo	ThinkPad X1 Extreme	4 Cell 80 Wh	Up to 15 hours (MobileMark 2014)

Brand	Model	Battery info	Battery life claims
LG	gram (15Z980)	4 cell lithium ion polymer 72Wh	19 hours
LG	gram (15Z990)	4 cell lithium ion polymer 72Wh	18.5 hours
LG	gram (15Z975) (15Z970)	4 cell lithium ion polymer 60.06Wh	11.8 hours
Sager	NP4850	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. XOTIC PC claims 3 hours.
Sager	NP8954	Embedded 4 cells Polymer battery pack 55WH	No official claim. No third-party claim found.
Sager	NP8956	Embedded 4 cells Polymer battery pack 62WH	No official claim. No third-party claim found.
Sager	NP7852	Removable 4 cells Smart Lithium-Ion battery 48.96WH	No official claim. No third-party claim found.
Sager	NP7853	Removable 4 cells Smart Lithium-Ion battery 48.96WH	No official claim. No third-party claim found.
Sager	NP6854	Removable 4 cells Smart Lithium-Ion battery 48.96WH	No official claim. No third-party claim found.
Sager	NP6855	Removable 4 cells Smart Lithium-Ion battery 48.96WH	No official claim. No third-party claim found.
Sager	NP6856	Removable 4 cells Smart Lithium-Ion battery 48.96WH	No official claim. No third-party claim found.
Sager	NP9156-G3	Removable 8 cells Smart Lithium-Ion battery pac 82WH	No official claim. No third-party claim found.
Sager	NP9156-G2	Removable 8 cells Smart Lithium-Ion battery pac 82WH	No official claim. No third-party claim found.
Sager	NP9156-G1	Removable 8 cells Smart Lithium-Ion battery pac 82WH	No official claim. No third-party claim found.
Sager	NP2950	4 cell 55WH	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Sager	NP8356	6 cell 62WH	No official claim. No third-party claim found.
Sager	NP3155	54.5Wh	No official claim. No third-party claim found.
Samsung	Notebook 5 NP530E5M-X02US	3 cell Li-ion 43Wh	Up to 8.5 hours (MM2014)
Samsung	Notebook 5 NP500R5L-M02US	43Wh	7 hours (MM2014)
Samsung	Notebook 5 NP550XTA-K01US	43Wh	6.5 hours
Samsung	Notebook 9 NP900X5N-X01US	66Wh	No official claim. BitTekNik claims up to 15 hours (MM2014).
Samsung	Notebook 9 NP900X5N-L01US	6 cell Li-ion 66 wh	No official claim. B&H claims up to 12 hours.
Samsung	Notebook 9 NP900X5T-K01US	6 cell Li-ion 75 wh	19.5 hours (MM2014)
Samsung	Notebook 9 NP900X5T-X01US	6 cell Li-ion 75 wh	19.5 hours (MM2014)
Samsung	Notebook 9 NP900X5L-K02US	4 cell 39Whr	12 hours (MM2007)
Samsung	Notebook 9 Pro NP940X5M-X01US	4 cell 54 Wh	11.5 hours (MM2014)
Samsung	Notebook Odyssey NP800G5M-X01US	43 Wh	Up to 9.5 hours (MM2014)
Samsung	Notebook Odyssey Z NP850XAC-X01US	54 Wh	4.5 hours
Samsung	Notebook Odyssey NP800G5H-X02US	4 cell 66 Wh	Up to 10.5 hours
Samsung	Notebook Odyssey NP800G5H-XS1US	4 cell Li-ion	Up to 10.5 hours

Brand	Model	Battery info	Battery life claims
Toshiba	Tecra C50 D1512	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	Up to 9.08 hours
Toshiba	Tecra C50 D1510 E1516	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	No official claim. No third-party claim found.
Toshiba	Tecra A50 D1532	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	Up to 9.08 hours
Toshiba	Tecra A50 D1534 D1538	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	No official claim. LAPTOP Magazine claims 5 hours, 59 minutes.
Toshiba	Tecra A50 A50-E1524 A50-E1526 A50-E1528	4-cell 45 Wh	No official claim. No third-party claim found.
Toshiba	Tecra Z50 E1552	4-cell 45 Wh	8.33 hours (MM2014)

Figure 1: Battery information. All links and data current as of 05/16/2019.

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Dell	XPS 15 9570	0.46–0.66	14.06 x 9.25	130.055	4.0
Dell	XPS 15	0.45 - 0.66	14.06 x 9.27	130.3	4.0 (57WHR) 4.5 (97WHR)
Acer	Aspire 3 (A315-21-63F1)	0.85	15.02 x 10.20	153.2	4.63
Acer	Aspire 3 (A315-21-93EY)	0.85	15.02 x 10.20	153.2	4.6
Acer	Aspire 3 (A315-21-927W) (A315-21-2476)	0.8	15 x 10.2	153	4.63
Acer	Aspire 3 (A315-31-C514) (A315-31-C8WK)	0.85	15 x 10.2	153	4.63
Acer	Aspire 3 (A315-51-514S) (A315-51-C7CF)	0.82	15.02 x 10.20	153.2	4.63
Acer	Aspire 3 (A315-51-31RD) (A315-51-582F)	0.9	15 x 10.2	153	4.63

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Acer	Aspire 3 (A315-41-R9J1) (A315-41-R8UU)	0.98	15.02 x 10.35	155.45	5.1
Acer	Aspire (A315-53-30BS) (A315-53-55Y1) (A315-53-50Y7) (A315-53-52CF) (A315-53-57WF)	0.82	15.02 x 10.35	155.45	4.6
Acer	Aspire 3 (A315-41-R3BW)	1	15 x 10.3	154.5	5.07
Acer	Aspire 3 (A315-53-54R3) (A315-53-30N0) (A315-53-578V) (A315-53-59PF) (A315-53-35ZY) (A315-53-32TF) (A315-53-54XX)	0.8	15 x 10.3	154.5	4.63
Acer	Aspire 3 (A315-53-56ER)	0.8	15 x 10.3	154.5	4.63
Acer	Aspire 3 (A315-32-C0S5)	0.8	15 x 10.2	153	4.63

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
	(A315-32-C78M) (A315-32-C3KK)				
Acer	Aspire 3 (A315-41-R5TS) (A315-41-R14K)	1	15 x 10.3	154.5	5.07
Acer	Aspire 3 (A315-41-R132) (A315-41-R98U)	1	15 x 10.3	154.5	5.07
Acer	Aspire 3 (A315-41-R3RF) (A315-41-R0GH)	1	15 x 10.3	154.5	5.07
Acer	Aspire 3 (A315-21-90LC)	0.8	15 x 10.2	153	4.63
Acer	Aspire 5 (A515-51G-53V6)	0.82	15.02 x 10.35	155.45	4.85
Acer	Aspire 5 (A515-52-526C) (A515-52-50G0)	0.7	14.3 x 9.7	138.7	4.19
Acer	Aspire 5 (A515-51-58HD) (A515-51-59VV)	0.8	15 x 10.4	156	4.85

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
	(A515-51G-58GZ) (A515-51G-87PK)				
Acer	Aspire 5 (A515-51-84PS) (A515-51-526S)	0.82	15.02 x 10.35	155.45	4.63
Acer	Aspire 5 (A515-51-50RR)	0.85	15.02 x 10.35	155.5	4.85
Acer	Aspire 5 (A515-52-5109)	0.7	14.3 x 9.7	138.7	4.19
Acer	Aspire 5 (A515-51G-84SN)	0.8	15 x 10.4	156	4.85
Acer	Aspire 7 (A715-72G-71CT) (A715-72G-79BH)	0.94	15.02 x 10.35	155.5	5.3
Acer	Aspire 7 (A715-72G-79R9) (A715-72G-73Y5) (A715-72G-72ZR)	0.9	15 x 10.3	154.5	5.29
Acer	Aspire 7 (A715-73G-75BW)	0.7	14.2 x 9.5	134.9	3.31

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Acer	Aspire 7 (A715-72G-739V)	0.9	15 x 10.3	154.5	5.29
Acer	Aspire E (E5-575G-57KJ)	1.19	15.02 x 10.20	153.2	4.9
Acer	Nitro 5 (AN515-53-7366)	1.05	15.35 x 10.47	160.7	6
Acer	Nitro 5 (AN515-53-70AQ)	1.1	15.4 x 10.5	161.7	5.95
Acer	Nitro 5 (AN515-42-R5GT) (AN515-42-R5ED)	1.1	15.4 x 10.5	161.7	5.95
Acer	Nitro 5 (AN515-54-54W2) (AN515-54-51M5)	1	14.3 x 10	143	5.51
Acer	Predator Helios 300 (PH315-51-78NP) (PH315-51-74V4) (PH315-51-785A) (PH315-51-71FS)	1.1	15.4 x 10.5	161.7	5.95
Acer	Predator Helios 300 (PH315-51-56KX)	1.1	15.4 x 10.5	161.7	5.51

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Acer	Predator Helios 300 (PH315-52-72RG) (PH315-52-72EV)	0.9	14.2 x 10	142	5.51
Acer	Predator Helios 300 Special Edition (PH315-51-757A)	1.1	15.4 x 10.5	161.7	5.95
Acer	Predator Triton 500 (PT515-51-75L8) (PT515-51-71VV) (PT515-51-765U) (PT515-51-7848) (PT515-51-73EG)	0.7	14.1 x 10	141	4.41
Acer	Predator Triton 700 (PT715-51-761M) (PT715-51-71W9)	0.74	15.5 x 10.5	162.8	5.29
Acer	Swift 3 (SF315-52G-82TV)	0.7	14.1 x 9.6	135.36	3.75
Acer	Swift 3 (SF315-52G-55MH)	0.7	14.1 x 9.6	135.36	3.97
Acer	Swift 3 (SF315-52-81HD) (SF315-52-52YN)	0.67	14.13 x 9.57	135.2	3.7

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
	(SF315-52-51NV) (SF315-52-88A4)				
Acer	Swift 3 (SF315-41-R8PP)	0.74	14.59 x 10.04	146.5	4.9
Acer	Swift 3 (SF315-41G-R6MP)	0.7	14.6 x 10	146	4.85
Acer	Swift 3 (SF315-52G-55MH)	0.7	14.1 x 9.6	135.3	3.97
Acer	Swift 5 (SF515-51T-507P) (SF515-51T-73TY)	0.6	14.1 x 9.1	128.31	2.2
Acer	TravelMate P2 (TMP215-51-51RB)	0.8	14.4 x 10.1	145.4	4.03
Acer	TravelMate P2 (TMP2510-G2-M-54EA) (TMP2510-G2-M-320E)	0.87	14.94 x 10	149.4	4.6
Acer	TravelMate P2 (TMP2510-G2-M-891A) (TMP2510-G2-M-56AT) (TMP2510-G2-M-317P)	0.9	14.9 x 10	149	4.63

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Acer	TravelMate P6 (TMP658-MG-749P)	0.88	15 x 10.02	150.3	4.6
Acer	TravelMate P6 (TMP658-M-70S3)	0.88	15 x 10.02	150.3	4.6
Aorus	15 (RTX 20 Series) 15-W9 15-X9	0.96	14.21 x 9.68	137.5	5.29
Aorus	15(Intel 9th Gen) RTX 15-XA 15-WA 15-SA	0.96	14.21 x 9.68	137.5	5.29
Aorus	15 (Intel 9th Gen) GTX 5-GA 5-NA	0.9	14.13 x 9.69	138.5	4.73
Aorus	X5 v7	0.9	15.4 x 10.7	164.8	5.51
Aorus	X5 v8	0.9	15.4 x 10.7	164.8	5.51
Aorus	X5 MD	0.9	15.4 x 10.7	164.8	5.51
Aorus	15-W9 15-X9	0.96	14.21 x 9.68	137.5	5.29

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Apple	MacBook Pro with Touch Bar	0.61	13.75 x 9.48	130.4	4.02
ASUS	ROG FX502VM	0.92	15.35 x 10.47	160.7	4.8
ASUS	ROG FX503	0.94	15.11 x 10.31	155.7	5.5
ASUS	ROG GU501	0.7	15.1 x 10.3	155.5	5.4
ASUS	ROG GL553VD	1.18	15.07 x 10.03	151.1	5.51
ASUS	ROG GL553VE	0.8	15.07 x 10.03	151.1	5.51
ASUS	ROG GL502VS	1.18	15.35 x 10.47	160.7	5.2
ASUS	ROG GL502VM	0.92	15.35 x 10.47	160.7	4.8
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	0.9	15.1 x 10.3	155.5	5.1
ASUS	ROG GL504GM (ROG Strix Hero II) (ROG Strix SCAR II)	1.02	14.21 x 10.31	146.5	5.29
ASUS	ROG ZEPHYRUS (GX501)	0.67 - 0.7	14.9 x 10.3	153.5	5
ASUS	ROG ZEPHYRUS (GM501)	0.68 - 0.78	15.11 x 10.31	155.7	5.4

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
ASUS	ROG Zephyrus S (GX531)	0.58 - 0.62	14.17 x 10.55	149.4	4.62
ASUS	ZenBook UX510UW	0.78	15.03 x 10.03	150.7	4.4
ASUS	ZenBook UX533FD	0.7	13.94 x 8.66	120.7	3.5 (anti-glare display) 3.7 (standard display)
ASUS	ZenBook Pro UX580GE	0.74	14.37 x 9.49	136.6	4.14
ASUS	ZenBook Pro UX550GE	0.74	14.37 x 9.88	142	4.1
ASUS	ZenBook Pro UX580GD	0.74	14.37 x 9.49	136.6	4.14
ASUS	ZenBook Pro UX550VE	0.74	14.37 x 9.88	142	3.97
ASUS	ASUSPRO P2530UA	0.91	14.96 x 10.07	150.6	4.78
ASUS	ASUSPRO P2540UA	0.91	14.96 x 10.07	150.6	4.78
ASUS	ASUSPRO P2540UB	0.91	14.96 x 10.07	150.6	4.78
ASUS	ASUSPRO P2540NV	0.91	14.96 x 10.07	150.6	4.78
ASUS	X55LA	1	15 x 10.1	151.5	5
ASUS	X507MA	0.86	14.37 x 10.47	150.4	3.7
ASUS	X507UA	0.86	14.37 x 10.47	150.4	3.7

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
ASUS	X507UB	0.86	14.37 x 10.47	150.4	3.7
ASUS	X507UF	0.86	14.37 x 10.47	150.4	3.7
ASUS	N550JX	1.09	15.07 x 10.03	151.1	5.7
ASUS	F542UA	0.91	14.96 x 9.88	142	5.07
ASUS	FX502VM	0.92	15.35 x 10.47	160.7	4.85
ASUS	FX502VD	0.92	15.35 x 10.47	160.7	4.85
ASUS	FX503	0.94	15.11 x 10.31	155.7	5.51
ASUS	TUF Gaming FX504	0.98	15.11 x 10.31	155.7	5.07
ASUS	TUF Gaming FX505	1.01	14.1 x 10.31	144.2	4.85
ASUS	VivoBook K570UD	0.86	14.74 x 10.07	148.4	4.1
ASUS	R540NA	1.07	15 x 9.88	148.2	4.4
ASUS	VivoBook 15 X505BA	0.8	14.2 x 9.6	136.3	3.64
ASUS	VivoBook 15 X505ZA	0.74	14.2 x 9.6	136.3	3.52
ASUS	VivoBook 15 X540NA	1.07	15 x 9.88	148.2	4.4

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
ASUS	VivoBook 15 X510UQ	0.76	14.2 x 9.6	136.3	3.75
ASUS	VivoBook S15 S510UA	0.7	14.2 x 9.6	136.3	3.74
ASUS	VivoBook S15 S510UN	0.7	14.2 x 9.6	136.3	3.3
ASUS	VivoBook Pro 15 N580VD	0.8	15 x 10	150	4.39 Non Touch 5.05 Touch
ASUS	VivoBook S15 S530UN	0.7	14.22 x 9.58	136	3.97
ASUS	VivoBook S15 S530UA	0.7	14.22 x 9.58	136	3.97
ASUS	VivoBook Pro 15 N580GD	0.8	15 x 10	150	4.39 Non Touch 5.05 Touch
CHUWI	LapBook 15.6	0.35 - 0.87	14.61 x 9.45	138.1	4.1
Fujitsu	Lifebook E558	0.94	14.92 x 9.8	150.4	4.5
Fujitsu	Lifebook U758	0.76	14.88 x 10.08	150	3.7
HP	15t touch	0.89	14.8 x 9.69	143.4	3.91
HP	Notebook 15-bs121nr	0.94	14.96 x 9.99	149.5	4.1
HP	250 G6	0.93	14.96 x 9.99	149.5	4.14

Brand	Model	Thinness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
HP	250 G7	0.89	14.8 x 9.68	143.2	3.91
HP	OMEN 15t	0.98	14.17 x 10.35	146.6	5.26
HP	Pavilion 15-cs0041nr	0.7	14.24 x 9.51	135.4	4.08
HP	Pavilion Gaming laptop 15t	1	14.4 x 10.1	145.5	4.78
HP	Pavilion Gaming 15-cx0071nr	1	14.4 x 10.1	145.5	5.18
HP	Pavilion 15t	0.89	14.88 x 9.93	147.8	4.27
HP	Pavilion 15z Touch	0.7	14.24 x 9.67	137.7	4.1
HP	EliteBook 755 G5	0.72	14.6 x 9.91	144.6	4.09
HP	EliteBook 850 G5	0.72	14.6 x 9.91	144.6	3.94
HP	EliteBook 1050 G1	0.74	14.17 x 10	141.7	4.54
HP	ProBook 450 G6	0.75	14.37 x 10.11	145.2	4.41
HP	ProBook 455 G5	0.82	14.8 x 10.4	153.9	4.46
HP	ProBook 650 G4	0.95	14.85 x 10.12	150.2	4.8

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
HP	Zbook 15v G5	1	14.37 x 10.1	145.1	4.72
HP	Zbook 15 G5	1	14.8 x 10.4	153.9	5.79
HP	Zbook 15 G3	1	15.2 x 10.4	158.08	5.8
HP	Zbook 15u G5	0.72	14.6 x 9.91	144.6	3.89
HP	Zbook Studio G5	0.69	14.17 x 10	147.9	4.4
Lenovo	Ideapad 130	0.89	14.8 x 9.97	147.5	4.6
Lenovo	Ideapad 330	0.9	14.1 x 10.2	143.82	4.85
Lenovo	Ideapad 340	0.9	14.3 x 10.2	145.86	4.8
Lenovo	Ideapad 330s	0.76	14.1 x 8.81	124.21	4.45
Lenovo	Ideapad S340	0.7	14.1 x 9.6	135.36	3.96
Lenovo	Ideapad L340	0.9	14.3 x 10.0	143	4.8
Lenovo	Ideapad 530S	0.65	14.1 x 9.6	135.36	3.7
Lenovo	Legion Y530	0.95	14.37 x 10.24	147.1	5.1
Lenovo	Legion Y730	0.78	14.25 x 10.51	149.7	4.8

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Lenovo	Legion Y740	0.88	14.2 x 10.5	149.1	5.1
Lenovo	ThinkPad P1	0.7	14.2 x 9.7	137.7	3.76
Lenovo	ThinkPad P51	0.96-1.02	14.86 x 9.93	147.5	5.6
Lenovo	ThinkPad P52	0.96	14.86 x 9.93	147.5	5.4
Lenovo	ThinkPad P52s	0.78 - 0.79	14.4 x 9.95	143.3	4.3
Lenovo	ThinkPad E580	0.78	14.53 x 9.92	144.1	4.7
Lenovo	ThinkPad E590	0.78	14.52 x 9.94	144.3	4.68
Lenovo	ThinkPad T570	0.78	14.4 x 9.9	142.6	4.5
Lenovo	ThinkPad T580	0.78	14.4 x 9.9	142.6	4.29
Lenovo	ThinkPad T590	0.75	12.95 x 8.94	115.7	3.87
Lenovo	ThinkPad L580	0.9	14.8 x 10	148	4.46
Lenovo	ThinkPad X1 Extreme	0.72 FHD non-touch 0.74 4K Touchscreen	14.24 x 9.67	137.7	3.76 FHD non-touch 4.06 Touchscreen

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
LG	gram (15Z980)	0.7	14.1 x 9.0	126.9	2.41
LG	gram (15Z990)	0.7	14.1 x 9.0	126.9	2.44
LG	gram (15Z975) (15Z970)	0.6	14.1 x 9.0	126.9	2.4
Sager	NP4850	0.98	14.88 x 10.51	156.3	5.51
Sager	NP8954	0.73	14.96 x 9.92	148.4	4.37
Sager	NP8956	0.78	14.96 x 9.92	148.4	4.6
Sager	NP7852	1.1	14.21 x 10.16	144.3	5
Sager	NP7853	1.1	14.21 x 10.16	144.3	5
Sager	NP6854	0.98	14.21 x 10.16	144.3	4.85
Sager	NP6855	0.98	14.21 x 10.16	144.3	4.85
Sager	NP6856	1.1	14.21 x 10.16	144.3	4.85
Sager	NP9156-G3	1.5	15.2 x 10.32	156.8	7.5

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Sager	NP9156-G2	1.5	15.2 x 10.32	156.8	7.5
Sager	NP9156-G1	1.5	15.2 x 10.32	156.8	7.5
Sager	NP2950	0.73	14.96 x 9.92	148.4	4.37
Sager	NP8356	1.18	14.13 x 10.15	143.4	5.8
Sager	NP3155	0.78	14.19 x 9.63	136.6	3.7
Samsung	Notebook 5 NP530E5M-X02US	0.98	14.76 x 9.76	144.1	4.37
Samsung	Notebook 5 NP500R5L-M02US	0.82	14.76 x 9.76	144.1	4.19
Samsung	Notebook 5 NP550XTA-K01US	0.82	14.76 x 9.76	144.1	4.3
Samsung	Notebook 9 NP900X5N-X01US	0.61	13.70 x 9.03	123.7	2.73
Samsung	Notebook 9 NP900X5N-L01US	0.61	13.70 x 9.03	123.7	2.6
Samsung	Notebook 9 NP900X5T-K01US	0.61	13.7 x 9.03	123.7	2.76

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Samsung	Notebook 9 NP900X5T-X01US	61	13.70 x 9.03	123.7	2.82
Samsung	Notebook 9 NP900X5L-K02US	0.57	13.64 x 9.32	127.1	2.9
Samsung	Notebook 9 Pro NP940X5M-X01US	0.67	13.67 x 9.41	128.6	3.79
Samsung	Notebook Odyssey NP800G5M-X01US	0.94	14.88 x 10.24	152.3	5.51
Samsung	Notebook Odyssey Z NP850XAC-X01US	0.7	14.79 x 10.04	148.4	5.29
Samsung	Notebook Odyssey NP800G5H-X02US	1.21	14.88 x 10.94	162.7	6.04
Samsung	Notebook Odyssey NP800G5H-XS1US	1.21	14.88 x 10.94	162.7	5.51
Toshiba	Tecra C50 D1512	0.95	14.9 x 10.2	151.9	4.96
Toshiba	Tecra C50 D1510 E1516	0.9	14.9 x 10.2	151.9	4.85

Brand	Model	Thickness (inches)	Dimensions (inches)	Total area (in ²)	Weight (lbs)
Toshiba	Tecra A50 D1532	0.9	14.9 x 10.2	151.9	4.96
Toshiba	Tecra A50 D1534 D1538	0.95	14.9 x 10.2	151.9	4.96
Toshiba	Tecra A50 A50-E1524 A50-E1526 A50-E1528	0.95	14.94 x 10.13	151.3	4.85
Toshiba	Tecra Z50 E1552	0.92	14.9 x 10.2	151.9	4.85

Figure 2: Dimensional information. All links and data current as of 05/16/2019.

Brand	Model	Processor	Graphics card
Dell	XPS 15	8th generation Intel Core processors up to quad-core i7	NVIDIA GeForce GTX 1050Ti
Dell	XPS 15	8th generation Intel Core processors up to quad-core i7	NVIDIA GeForce GTX 1050Ti
Acer	Aspire 5 (A515-51G-53V6)	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	Aspire 5 (A515-51G-84SN)	Intel Core i7-8550U	NVIDIA GeForce MX150
Acer	Aspire 7 (A715-72G-71CT) (A715-72G-79BH)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti
Acer	Aspire 7 (A715-72G-79R9) (A715-72G-73Y5) (A715-72G-72ZR)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Acer	Aspire 7 (A715-73G-75BW)	Intel Core i7-8705G	AMD Radeon RX Vega M GL
Acer	Aspire 7 (A715-72G-739V)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Acer	Aspire E (E5-575G-57KJ)	Intel Core i5-7200U	NVIDIA GeForce 940MX

Brand	Model	Processor	Graphics card
Acer	Nitro 5 (AN515-53-7366)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Acer	Nitro 5 (AN515-53-70AQ)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Acer	Nitro 5 (AN515-42-R5GT) (AN515-42-R5ED)	AMD Ryzen 5 2500U	AMD Radeon RX 560X
Acer	Nitro 5 (AN515-54-54W2) (AN515-54-51M5)	Intel Core i5-9300H	NVIDIA GTX 1050 NVIDIA GTX 1650
Acer	Predator Helios 300 (PH315-51-78NP) (PH315-51-74V4) (PH315-51-785A) (PH315-51-71FS)	Intel Core i7-8750H	NVIDIA GeForce GTX 1060
Acer	Predator Helios 300 (PH315-51-56KX)	Intel Core i5-8300H	NVIDIA GeForce GTX 1060
Acer	Predator Helios 300 (PH315-52-72RG) (PH315-52-72EV)	Intel Core i7-9750H	NVIDIA GeForce GTX 1660Ti NVIDIA GeForce RTX 2060
Acer	Predator Helios 300 Special Edition (PH315-51-757A)	Intel Core i7-8750H	NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
Acer	Predator Triton 500 (PT515-51-75L8) (PT515-51-71VV) (PT515-51-765U) (PT515-51-7848) (PT515-51-73EG)	Intel Core i7-8750H Intel Core i7-9750H	NVIDIA GeForce RTX 2080 NVIDIA GeForce RTX 2060
Acer	Predator Triton 700 (PT715-51-761M) (PT715-51-71W9)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1080 NVIDIA GeForce GTX 1060
Acer	Swift 3 (SF315-52G-82TV)	Intel i7-8550U	NVIDIA GeForce MX150
Acer	Swift 3 (SF315-52G-55MH)	Intel i5-8250U	NVIDIA GeForce MX150
Acer	TravelMate P6 (TMP658-MG-749P)	Intel Core i7-6500U	NVIDIA GeForce 940M
Aorus	15 (RTX 20 Series) 15-W9 15-X9	8th Generation Intel Core i7-8750H	NVIDIA GeForce RTX 2070
Aorus	15(Intel 9th Gen) RTX 15-XA 15-WA 15-SA	9th Generation Intel Core i7-9750H	NVIDIA GeForce RTX 2070

Brand	Model	Processor	Graphics card
Aorus	15 (Intel 9th Gen) GTX 5-GA 5-NA	9th Generation Intel Core i7-9750H	NVIDIA GTX 1650
Aorus	X5 v7	7th Generation Intel Core i7-7820HK	NVIDIA GeForce GTX 1070
Aorus	X5 v8	Intel i7-8850H	NVIDIA GeForce GTX 1070
Aorus	X5 MD	7th Generation Intel Core i7-7820HK	NVIDIA GeForce GTX 1080
Aorus	15-W9 15-X9	Intel Core i7-8750H	NVIDIA GeForce RTX 2070
Apple	MacBook Pro with Touch Bar	2.2-4.1GHz 6-core Intel i7 2.6-4.3GHz 6-core Intel i7 2.9-4.8GHz 6-core Intel i9	AMD Radeon Pro 555X AMD Radeon Pro 560X Intel UHD 630
ASUS	ROG FX503	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1060
ASUS	ROG GU501	Intel Core i7-8750H	NVIDIA GeForce GTX 1060
ASUS	ROG GL553VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 2GB/4GB
ASUS	ROG GL553VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050Ti 4GB
ASUS	ROG GL502VS	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1070

Brand	Model	Processor	Graphics card
ASUS	ROG GL502VM	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 1060
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
ASUS	ROG GL504GM (ROG Strix Hero II) (ROG Strix SCAR II)	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1060
ASUS	ROG ZEPHYRUS (GX501)	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1080
ASUS	ROG ZEPHYRUS (GM501)	Intel Core i7-8750H	NVIDIA GeForce GTX 1080
ASUS	ROG Zephyrus S (GX531)	Intel Core i7-8750H	NVIDIA GeForce GTX 1060 NVIDIA GeForce GTX 1070
ASUS	ZenBook UX510UW	Intel Core i7-6500U Intel Core i5-6200U	NVIDIA GeForce GTX 960M
ASUS	ZenBook UX533FD	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce GTX 1050 Max-Q
ASUS	ZenBook Pro UX580GE	Intel Core i9-8950HK Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050 Ti
ASUS	ZenBook Pro UX550GE	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti

Brand	Model	Processor	Graphics card
ASUS	ZenBook Pro UX580GD	Intel Core i9-8950HK	NVIDIA GeForce GTX 1050 Ti
ASUS	ZenBook Pro UX550VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 Ti
\ASUS	X507UB	Intel Core i3 6006U Intel Core i5 7200U Intel Core i7 7500U Intel Core i3 7020U Intel Core i3 8250U Intel Core i5 8250U Intel Core i7 8550U	NVIDIA GeForce MX110
ASUS	X507UF	Intel Core i3 6006U Intel Core i5 7200U Intel Core i7 7500U Intel Core i3 7020U Intel Core i3 8250U Intel Core i5 8250U Intel Core i7 8550U	NVIDIA GeForce MX110
ASUS	N550JX	Intel Core i7 4720HQ Intel core i5 4200H	NVIDIA GeForce GTX 950M
ASUS	FX502VD	Intel Core i7 7700HQ Intel Core i5 7300HQ	NVIDIA GeForce GTX 1050
ASUS	FX503	Intel Core i7 7700HQ Intel Core i5 7300HQ	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
ASUS	TUF Gaming FX504	Intel Core i7 8750H Intel Core i7 8300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTS 1050 TI
ASUS	TUF Gaming FX505	Intel Core i78750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050TI NVIDIA GeForce GTX 1060
ASUS	VivoBook K570UD	Intel Core i7 8550U Intel Core i5 8250U	NVIDIA GeForce GTX 1050
ASUS	VivoBook 15 X510UQ	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U	NVIDIA GeForce 930MX
ASUS	VivoBook S15 S510UN	Intel Core i7-8550U Intel Core i7-8250U Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce MX150
ASUS	VivoBook Pro 15 N580VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
ASUS	VivoBook S15 S530UN	Intel Core i7-8550U Intel Core i7-8250U Intel Core i3-8130U	NVIDIA GeForce MX150
ASUS	VivoBook Pro 15 N580GD	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050
HP	OMEN 15t	Intel Core i7-8750H	NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
HP	Pavilion Gaming laptop 15t	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1060
HP	Pavilion Gaming 15-cx0071nr	Intel Core i7-8750H	NVIDIA GeForce GTX 1050
HP	EliteBook 850 G5	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	EliteBook 1050 G1	Intel Core i7-8750H	NVIDIA GeForce GTX 1050
HP	ProBook 450 G6	Intel Core i7-8565U	NVIDIA GeForce MX130
HP	ProBook 650 G4	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	Zbook 15v G5	Intel Core i5-8300H Intel Core i5-8400H Intel Core i7-8750H Intel Core i7-8850H Intel Xeon E-2176M	NVIDIA Quadro P600

Brand	Model	Processor	Graphics card
HP	Zbook 15 G5	Intel i5-8300H Intel i5-8400H Intel i7-8750H Intel i7-8850H Intel Xeon E-2176M Intel Xeon E2186M	NVIDIA Quadro P1000 NVIDIA Quadro P2000 AMD RadeonPro WX
HP	Zbook 15 G3	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ Intel Core i5-6440HQ	NVIDIA Quadro M2000M
HP	Zbook 15u G5	Intel Core i5-7200U Intel Core i5-8250U Intel Core i5-7200U Intel Core i5-7300U Intel Core i5-8350U Intel Core i7-8550U Intel Core i7-8650U Intel Core i7-8650U	AMD Radeon Pro WX 3100
HP	Zbook Studio G5	Intel Core i7-8750H	NVIDIA Quadro P1000
Lenovo	Ideapad 330	Intel core i7-8750H	NVIDIA GeForce GTX 1050
Lenovo	Ideapad 330s	Intel Core i5-8250U	NVIDIA GeForce GTX 1050
Lenovo	Legion Y530	Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1050 Ti
Lenovo	Legion Y730	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti

Brand	Model	Processor	Graphics card
Lenovo	Legion Y740	Intel Core i7-8750H	NVIDIA GeForce RTX 20170
Lenovo	ThinkPad P1	Intel Core i7-8850H	NVIDIA Quadro P2000
Lenovo	ThinkPad P51	Intel Core i7-7700HQ	NVIDIA Quadro M1200
Lenovo	ThinkPad P52	Intel Core i7-8850H	NVIDIA Quadro P3200
Lenovo	ThinkPad P52s	Intel Core i7-8650U	Nvidia Quadro P500
Lenovo	ThinkPad T570	Intel Core i5-6300U Intel Core i7-6600U	NVIDIA GeForce 940MX
Lenovo	ThinkPad T580	Intel Core i7-8650U	NVIDIA GeForce MX 150
Lenovo	ThinkPad T590	Intel Core i7-8650U	NVIDIA GeForce MX 150
Lenovo	ThinkPad X1 Extreme	Intel Core i7-8850H	NVIDIA GeForce GTX 1050 Ti
Sager	NP4850	8th Gen Intel® Core™ i5-8300H	NVIDIA GeForce MX150
Sager	NP8954	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1070
Sager	NP8956	8th Generation Intel® Core™ i7-8750H	NVIDIA GeForce RTX 2070
Sager	NP7852	8th Generation Intel® Core™ i7-8750H	NVIDIA GeForce RTX 2060
Sager	NP7853	8th Generation Intel® Core™ i7-8750H	NVIDIA GeForce RTX 2060

Brand	Model	Processor	Graphics card
Sager	NP6854	9th Generation Intel® Core™ i5-9300H	NVIDIA GeForce GTX 1050
Sager	NP6855	9th Generation Intel® Core™ i9-9750H	NVIDIA GeForce GTX 1650
Sager	NP6856	9th Gen Intel Core i9-9750K	NVIDIA GeForce GTX 1660Ti
Sager	NP9156-G3	9th Gen Intel Core i9-9900K	NVIDIA GeForce RTX 2080
Sager	NP9156-G2	9th Gen Intel Core i9-9900K	NVIDIA GeForce RTX 2080
Sager	NP9156-G1	9th Gen Intel Core i9-9900K	NVIDIA GeForce RTX 2080
Sager	NP2950	8th Gen Intel Core i7-8750H	NVIDIA Quadro P3200
Sager	NP8356	8th Gen Intel Core i7-8750H	NVIDIA GeForce RTX 2070
Samsung	Notebook Odyssey NP800G5M-X01US	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
Samsung	Notebook Odyssey Z NP850XAC-X01US	Intel Core i7-8750H	NVIDIA GeForce GTX 1060
Samsung	Notebook Odyssey NP800G5H-X02US	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060
Samsung	Notebook Odyssey NP800G5H-XS1US	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060

Figure 3: Processor and graphics card information. All links and data current as of 05/16/2019.

ABOUT PRINCIPLED TECHNOLOGIES



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