

COMPARISON OF 15-INCH CLASS LAPTOPS

We compared the new Dell™ XPS™ 15 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 11/07/2018 at the links provided.

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

- has the longest 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 39 mins
Acer	Aspire 3 (A315-21-95KF) (A315-21-4098)	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 (A315-31-C514) (A315-51-31RD) (A315-31-C8WK) (A315-31-P0SY) (A315-51-C0DT) (A315-51-C06Z) (A315-51-582F) (A315-51-39CG)	2 cell Lithium Ion 4810 mAh	6.5 hours
Acer	Aspire 3 (A315-51-56GT)	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.



Brand	Model	Battery info	Battery life claims
Acer	Aspire 3 (A315-51-57Z4) (A315-51-52S5) (A315-51-514S) (A315-51-361T) (A315-51-30AT) (A315-51-C7CF)	2 cell Lithium Ion 4810 mAh	No official claim. CDW claims 6.5 hours.
Acer	Aspire 3 (A315-21-4098) (A315-21-92FX)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-41-R0GH)	2 cell Lithium Ion 4810 mAh	6 hours
Acer	Aspire 3 (A315-41-R001) (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)	2 cell Lithium Ion 4810 mAh	7 hours

Brand	Model	Battery info	Battery life claims
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)	2 cell Lithium Ion 4870 mAh	No official claim. No third party claim found.
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 5 (A515-51-86AQ)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51G-515J) (A515-51G-89LS) (A515-51G-5067) (A515-51G-53V6)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-596K)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-5398)	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 (A515-51-513F) (A515-51-58HD) (A515-51-59VV) (A515-51G-58GZ) (A515-51G-87PK)	4 cell Lithium Ion 3220 mAh	7 hours

Brand	Model	Battery info	Battery life claims
Acer	Aspire 5 (A515-51-357G) (A515-51-57P3) (A515-51-76M8)	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 (A515-51G-84ZP)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51G-503E) (A515-51G-53F6)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-41G-F3FL)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A715-71G-71NC)	4-cell 3220 mAh Li-Polymer	7 hours
Acer	Aspire 5 (A515-51-50RR) (A515-51G-5488)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-89UP)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 7 (A715-71G-71NC)	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.
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.

Brand	Model	Battery info	Battery life claims
Acer	Aspire E (E5-576-392H)	6 cell Lithium Ion 2800 mAh	13 hours
Acer	Aspire E (E5-575G-57KJ)	4-cell Lithium Ion 2800 mAh	8 hours
Acer	Aspire E (E5-576G-81GD)	6 cell Lithium Ion 2800 mAh	No official claim. No third party claim found.
Acer	Aspire E (E5-576G-5762)	6 cell Lithium Ion 2800 mAh	No official claim. No third party claim found.
Acer	Nitro 5 (AN515-51-5594) (AN515-51-55WL) (AN515-51-72HL)	4-cell 3220 mAh Lithium Ion	8.5 hours
Acer	Nitro 5 (AN515-51-5082)	4-cell 3220 mAh Lithium Ion	8.5 hours
Acer	Nitro 5 (AN515-51-504A) (AN515-51-522L)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Nitro 5 (AN515-53-52FA) (AN515-53-55G9)	4-cell 3220 mAh Lithium Ion	No official claim. No third party claim found.
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 (AN515-41-F6VS)	4-cell 3220 mAh Lithium Ion	6 hours
Acer	Nitro 5 (AN515-51-76SX) (AN515-51-53W5)	4-cell 3220 mAh Lithium Ion	7 hours

Brand	Model	Battery info	Battery life claims
Acer	Nitro 5 (AN515-42-R5GT) (AN515-42-R5ED)	4-cell 3320 mAh Lithium Ion	No official claim. No third-party claim found.
Acer	Predator 15 (G9-593-71EH)	8-cell 6000 mAh Lithium Ion	3 hours
Acer	Predator 15 (G9-593-77WF)	8-cell 6000 mAh Lithium Ion	3 hours
Acer	Predator Helios 300 (G3-571-77QK)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-7526) (G3-571-73H3) (G3-571-77KB)	4-cell 3220 mAh Lithium Ion	9 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
Acer	Predator Helios 300 (PH315-51-56KX)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Predator Triton 700 (PT715-51-732Q) (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

Brand	Model	Battery info	Battery life claims
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) (SF315-41-R6J9)	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	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.
Acer	TravelMate P6 (TMP658-M-59SY)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Aorus	X5	Li Polymer 73.26Wh	No official claim. Notebook Check claims 2 hours, 45 minutes while idle.
Aorus	X5S v5	Li Polymer 73.26Wh	No official claim. Notebook Check claims 5 hours, 13 minutes while idle.
Aorus	X5 v6	Li Polymer 94.24Wh	No official claim. Notebook Check claims 4 hours, 9 minutes while idle.
Aorus	X5 v7	Li Polymer 94.24Wh	No official claim. The Tech Report claims 2.9 hours while web browsing.

Brand	Model	Battery info	Battery life claims
Aorus	X5 v8	Li Polymer 94.24Wh	No official claim. Notebook Check claims 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 movie playback.
Apple	MacBook Pro with Retina Display	99.5 Whr Lithium-polymer battery	9 hours wireless web; 9 hours iTunes movie playback
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 Strix SKT T1 Hero Edition	4 cell 64 Whrs	No official claim. No third-party claim found.
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	4 cell 64 Whrs	No official claim. LAPTOP Magazine 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

Brand	Model	Battery info	Battery life claims
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 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.

Brand	Model	Battery info	Battery life claims
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.
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	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 Pro 15 N580VD	3 cell 47 Whrs	No official claim. PC Verge claims 4 to 5 hours.
ASUS	VivoBook Pro 15 N580GD	3 cell 47 Whrs	No official claim. No third-party claim found.
CHUWI	LapBook 15.6	10000mAh	5 hours

Brand	Model	Battery info	Battery life claims
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	255 G6	4 cell (41 WHr) Lithium-ion Battery	7 hours and 30 minutes
HP	OMEN 15t	4-cell, 70 Wh Li-ion	No official claim. No third-party claim found.
HP	OMEN 15t Gaming	4-cell, 70 Wh Li-ion	No official claim. No third-party claim found.
HP	OMEN 15-dc0052nr	4-cell, 70 Wh Li-ion	No official claim. No third-party claim found.
HP	OMEN 15-ce199nr	4-cell, 70 Wh Li-ion	Up to 12 hours, 45 minutes
HP	Pavilion 15-cs0041nr	3-cell, 41 Wh Li-ion	Up to 10 hours and 45 minutes
HP	Pavilion 15-cw0088nr	3-cell, 41 Wh Li-ion	Up to 7 hours and 30 minutes
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.

Brand	Model	Battery info	Battery life claims
HP	EliteBook 755 G5	3-cell 56 Wh Li-ion	Up to 12 hours
HP	EliteBook 850 G5	3-cell (56 WHr) lithium-Ion Battery	No official claim. No third-party claim found.
HP	ProBook 450 G3	4-Cell (44 WHr) Lithium-Ion Battery 6-cell (55 WHr) Battery Long Life	No official claim. Notebook Check claims 5 hours, 37 minutes during video playback and 5 hours, 9 minutes over WiFi.
HP	ProBook 450 G5	3-cell (48 WHr) Long Life Li-ion	Up to 16 hours and 15 mins
HP	ProBook 455 G5	3-cell, 48 Wh Li-ion	Up to 9 hours and 45 minutes
HP	ProBook 650 G2	3-cell (48 WHr) Long Life Li-ion	No official claim. Notebook Check claims 6 hours, 48 minutes while using WiFi.
HP	ProBook 650 G4	3-cell (48 Whr) Long Life	No official claim. Laptopmedia.com 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 while using WiFi.
HP	Zbook 15 G4	9-cell (90 WHr) Long Life	No official claim. PC Magazine 11 hours, 15 minutes.
HP	Zbook 15u G3	3-cell 46 WHr Li-ion prismatic	No official claim. Notebook Check claims 5 hours, 12 minutes while using WiFi.
HP	Zbook 15u G4	3-cell 51 WHr Li-ion	No official claim. NothingButSavings claims 10 hours.
HP	Zbook 15u G5	3-cell 50 WHr Li-ion	Up to 14 hours
HP	Zbook Studio G3	4-cell 64 WHr Li-ion prismatic	No official claim. No third-party claim found.
HP	Zbook Studio G4	4-cell 64 WHr Li-ion prismatic	No official claim. LAPTOP Magazine claims 4 hours, 26 minutes during continuous web surfing.

Brand	Model	Battery info	Battery life claims
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	5.5 hours (MobileMark 2014)
Lenovo	Ideapad 330s	No info	Up to 7 hours (MobileMark 2014)
Lenovo	Ideapad 530S	No info	8 hours
Lenovo	Ideapad 720S	4 Cell 79 Watt Hour Li-Polymer	9 hours
Lenovo	Legion Y520	3 Cell 45 Watt Hour Li-Polymer	Up to 4 hours
Lenovo	Legion Y530	52.5 WHr	Up to 5 hours
Lenovo	Legion Y720	4 Cell 60 Watt Hour Li-Polymer	Up to 5 hours
Lenovo	Legion Y730	3 Cell 57 WHr	No official claim. PC Magazine claims 3 hours, 4 minutes.
Lenovo	ThinkPad P1	4 Cell 80 WHr	Up to 13 hours (MobileMark 2014)
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 E585	45 Wh	Up to 8.5 hours

Brand	Model	Battery info	Battery life claims
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 L580	Li-ion 3-cell (45 Wh)	11 hours
Lenovo	ThinkPad X1 Extreme	4 Cell 80 Wh	Up to 15 hours (MobileMark 2014)
Lenovo	V130	2 Cell 30 Wh	Up to 6 hours (MobileMark 2014)
Lenovo	V330	2 Cell 39 Wh	Upt to 8 hours (MobileMark 2014)
LG	gram (15Z980)	4 cell lithium ion polymer 72Wh	19 hours
LG	gram (15Z975) (15Z970)	4 cell lithium ion polymer 60.06Wh	11.8 hours
Sager	NP9155	Removable 8 cell Smart Lithium-Ion battery pack 82Wh	No official claim. XOTIC PC claims 2+ hours.
Sager	NP8955	Embedded 4 cell Polymer battery pack 55 Wh	No official claim. XOTIC PC claims 3 hours.
Sager	NP8955-S	Embedded 4 cell Polymer battery pack 55 Wh	No official claim. XOTIC PC claims 3 hours.
Sager	NP8954	Embedded 4 cell Polymer battery pack 55 Wh	No official claim. XOTIC PC claims 3 hours.
Sager	NP8953	Embedded 4 cells Polymer battery pack 55WH	No official claim. XOTIC PC claims 3 hours.
Sager	NP7851	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. XOTIC PC claims 3 hours.
Sager	NP6853	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. XOTIC PC claims 3 hours.
Sager	NP5856	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. XOTIC PC claims 3 hours.

Brand	Model	Battery info	Battery life claims
Sager	NP4850	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. XOTIC PC claims 3 hours.
Sager	NP8154	Embedded 4 cells Polymer battery pack 55WH	No official claim. XOTIC PC claims 3 hours.
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 9 NP900X5N-X01US	66Wh	Up to 15 hours
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 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-X02US 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 C1510 C1511 C1513	Lithium Ion (45Wh, 4-cell)—*Not user replaceable	Up to 9.08 hours
Toshiba	Tecra A50 C1543 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	4-cell 45 Wh	No official claim. No third-party claim found.
Toshiba	Tecra Z50 D1552	4-cell 45 Wh	8.33 hours (MM2014)

Figure 1: Battery information. All links and data current as of 11/07/2018.

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
Dell	XPS 15	11.0 - 17.0	0.45 - 0.66	357 x 235	14.06 x 9.27	130.3	4.0 (57WHR) 4.5 (97WHR)	1.8 (57WHR) 2.0 (97WHR)
Acer	Aspire 5 (A515-51G-515J) (A515-51G-89LS) (A515-51G-5067) (A515-51G-53V6)		0.82		15.02 x 10.35	155.45	4.85	
Acer	Aspire 5 (A515-51G-84ZP)		0.82		15.02 x 10.35	155.45	4.85	
Acer	Aspire 5 (A515-51G-503E) (A515-51G-53F6)		0.85		15.02 x 10.35	155.45	4.85	
Acer	Aspire 5 (A715-71G-71NC)		0.94		15.02 x 10.35	155.45	5.29	
Acer	Aspire 7 (A715-71G-71NC)		0.94		15.02 x 10.35	155.5	5.29	
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)		0.9		15 x 10.3	154.5	5.29	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
	(A715-72G-73Y5) (A715-72G-72ZR)							
Acer	Aspire E (E5-575G-57KJ)		1.19		15.02 x 10.20	153.2	4.9	
Acer	Aspire E (E5-576G-81GD)		1.19		15.02 x 10.20	153.2	5.27	
Acer	Aspire E (E5-576G-5762)		1.19		15.02 x 10.20	153.2	5.27	
Acer	Nitro 5 (AN515-51-5594) (AN515-51-55WL) (AN515-51-72HL)		1.05		15.35 x 10.47	160.7	5.95	
Acer	Nitro 5 (AN515-51-5082)		1.05		15.4 x 10.5	161.7	5.51	
Acer	Nitro 5 (AN515-51-504A) (AN515-51-522L)		1.05		15.35 x 10.47	160.7	5.95	
Acer	Nitro 5 (AN515-53-52FA) (AN515-53-55G9)		1.05		15.35 x 10.47	160.7	6	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
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 (AN515-41-F6VS)		1.05		15.35 x 10.47	160.7	5.95	
Acer	Nitro 5 (AN515-51-76SX) (AN515-51-53W5)		1.05		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	Predator 15 (G9-593-71EH)		1.52		15.4 x 11.8	181.7	8.16	
Acer	Predator 15 (G9-593-77WF)		1.5		15.4 x 11.8	181.7	8.16	
Acer	Predator Helios 300 (G3-571-77QK)		1.05		15.4 x 10.5	161.7	5.95	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-7526) (G3-571-73H3) (G3-571-77KB)		1.05		15.4 x 10.5	161.7	5.95	
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	
Acer	TravelMate P6 (TMP658-MG-749P)		0.88		15 x 10.02	150.3	4.6	
Aorus	X5	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	X5S v5	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	X5 v6		0.9		15.4 x 10.7	164.8	5.51	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
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	
Apple	MacBook Pro with Retina Display	18	0.71	358.9 x 247.1	14.13 x 9.73	137.48	4.49	2.04
Apple	MacBook Pro with Touch Bar		0.61		13.75 x 9.48	130.4	4.02	1.83
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 Strix SKT T1 Hero Edition		0.9		15.1 x 10.3	155.5	5.07	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
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	
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 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	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
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	1.8
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	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	VivoBook K570UD		0.86		14.74 x 10.07	148.4	4.1	
ASUS	VivoBook 15 X510UQ		0.76		14.2 x 9.6	136.3	3.75	
ASUS	VivoBook Pro 15 N580VD		0.8		15 x 10	150	4.39 Non Touch 5.05 Touch	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
ASUS	VivoBook Pro 15 N580GD		0.8		15 x 10	150	4.39 Non Touch 5.05 Touch	
Fujitsu	Lifebook U758		0.76		14.88 x 10.08	150	3.7	
HP	OMEN 15t		0.98		14.17 x 10.35	146.6	5.26	
HP	OMEN 15t Gaming		0.98		15.3 x 10.85	166	5.72	
HP	OMEN 15-dc0052nr		1.02		14.17 x 10.35	146.6	5.56	
HP	OMEN 15-ce199nr		0.98		15.3 x 10.85	166	5.72	
HP	Pavilion 15-cs0041nr		0.7		14.24 x 9.51	135.4	4.08	
HP	EliteBook 850 G5		0.72		14.6 x 9.91	144.6	3.94	
HP	ProBook 450 G5		0.82		14.8 x 10.4	153.9	4.64	
HP	ProBook 650 G2		1.07		14.88 x 10.11	150.4	5.1	
HP	ProBook 650 G4		0.95		14.85 x 10.12	150.2	4.8	
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	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
HP	Zbook 15 G3		1		15.2 x 10.4	158.08	5.8	
HP	Zbook 15 G4		1		15.2 x 10.4	158.08	5.8	
HP	Zbook 15u G3		0.78		15.09 x 10.1	152.4	4.18	
HP	Zbook 15u G4		0.78		15.09 x 10.1	152.4	4.18	
HP	Zbook 15u G5		0.72		14.6 x 9.91	144.6	3.89	
HP	Zbook Studio G3		0.71		14.76 x 10.04	148.2	4.4	
HP	Zbook Studio G5		0.69		14.17 x 10	147.9	4.4	
Lenovo	Ideapad 330		0.9		14.1 x 10.2	143.8	4.85	
Lenovo	Ideapad 720S		0.7		14.12 x 9.58	135.3	4.8	
Lenovo	Legion Y520		1.09		14.96 x 10.43	156	5.29	
Lenovo	Legion Y530		0.95		14.37 x 10.24	147.1	5.1	
Lenovo	Legion Y720		1.14		14.96 x 10.9	163.1	7.05	
Lenovo	Legion Y730		0.78		14.25 x 10.51	149.7	4.8	
Lenovo	ThinkPad P1		0.7		14.2 x 9.7	137.7	3.76	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
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 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	
Sager	NP9155		1.5		15.20 x 10.32	156.8	7.5	
Sager	NP8955		0.73		14.96 x 9.92	148.4	4.37	
Sager	NP8955-S		0.73		14.96 x 9.92	148.4	4.37	
Sager	NP8954		0.73		14.96 x 9.92	148.4	4.37	
Sager	NP8953		0.73		14.96 x 9.92	148.4	4.37	
Sager	NP7851		1.18		14.88 x 10.51	156.3	5.51	
Sager	NP6853		1.06		14.88 x 10.51	156.3	5.51	
Sager	NP5856		1.06		14.88 x 10.51	156.3	5.51	
Sager	NP4850		0.98		14.88 x 10.51	156.3	5.51	
Sager	NP8154		0.73		14.96 x 9.92	148.4	4.37	

Brand	Model	Thickness		Dimensions		total area (in ²)	Weight	
		mm	inches	mm	inches		lbs	kg
Samsung	Notebook Odyssey NP800G5M-X02US 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	

Figure 2: Dimensional information. All links and data current as of 11/07/2018.

Brand	Model	Processor	Graphics card
Dell	XPS 15	8th generation Intel® Core™ processors up to quad-core i7	NVIDIA® GeForce® GTX 1050Ti
Acer	Aspire 5 (A515-51G-515J) (A515-51G-89LS) (A515-51G-5067) (A515-51G-53V6)	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	Aspire 5 (A515-51G-84ZP)	Intel Core i7-8550U	NVIDIA GeForce MX150
Acer	Aspire 5 (A515-51G-503E) (A515-51G-53F6)	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	Aspire 5 (A715-71G-71NC)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
Acer	Aspire 7 (A715-71G-71NC)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050
Acer	Aspire 7 (A715-72G-71CT) (A715-72G-79BH)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti

Brand	Model	Processor	Graphics card
Acer	Aspire 7 (A715-72G-79R9) (A715-72G-73Y5) (A715-72G-72ZR)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Acer	Aspire E (E5-575G-57KJ)	Intel Core i5-7200U	NVIDIA GeForce 940MX
Acer	Aspire E (E5-576G-81GD)	Intel Core i7-8550U	NVIDIA GeForce MX150
Acer	Aspire E (E5-576G-5762)	Intel Core i5-8250U	NVIDIA GeForce MX150
Acer	Nitro 5 (AN515-51-5594) (AN515-51-55WL) (AN515-51-72HL)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
Acer	Nitro 5 (AN515-51-5082)	Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
Acer	Nitro 5 (AN515-51-504A) (AN515-51-522L)	Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 Ti NVIDIA GeForce GTX 1050
Acer	Nitro 5 (AN515-53-52FA) (AN515-53-55G9)	Intel Core i5-8300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti

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 (AN515-41-F6VS)	AMD FX-Series FX-9830P	AMD Radeon RX 550
Acer	Nitro 5 (AN515-51-76SX) (AN515-51-53W5)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
Acer	Nitro 5 (AN515-42-R5GT) (AN515-42-R5ED)	AMD Ryzen 5 2500U	AMD Radeon RX 560X
Acer	Predator 15 (G9-593-71EH)	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1070
Acer	Predator 15 (G9-593-77WF)	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1070
Acer	Predator Helios 300 (G3-571-77QK)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-7526) (G3-571-73H3) (G3-571-77KB)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060
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	TravelMate P6 (TMP658-MG-749P)	Intel Core i7-6500U	NVIDIA GeForce 940M
Aorus	X5	5th Generation Intel® Core™ i7-5700HQ	Dual NVIDIA GeForce GTX 965M
Aorus	X5S v5	6th Generation Intel® Core™ i7-6700HQ	NVIDIA GeForce GTX 980M
Aorus	X5 v6	6th Generation Intel® Core™ i7-6820HK	NVIDIA GeForce GTX 1070 8GB
Aorus	X5 v7	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1070

Brand	Model	Processor	Graphics card
Aorus	X5 v8	Intel i7-8850H	NVIDIA GeForce GTX 1070
Aorus	X5 MD	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1080
Apple	MacBook Pro with Retina Display	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	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
ASUS	ROG GL502VM	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 1060
ASUS	ROG Strix SKT T1 Hero Edition	Intel core i7 7700HQ	NVIDIA GeForce GTX 1060

Brand	Model	Processor	Graphics card
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 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
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

Brand	Model	Processor	Graphics card
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
ASUS	TUF Gaming FX504	Intel Core i7 8750H Intel Core i7 8300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTS 1050 TI
ASUS	VivoBook K570UD	Intel Core i7 8550U Intel Core i5 8250U	NVIDIA GeForce GTX 1050

Brand	Model	Processor	Graphics card
ASUS	VivoBook 15 X510UQ	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U	NVIDIA GeForce 930MX
ASUS	VivoBook Pro 15 N580VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050
ASUS	VivoBook Pro 15 N580GD	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050
Fujitsu	Lifebook U758	Intel Core i7-8650U	
HP	OMEN 15t	Intel Core i7-8750H	NVIDIA GeForce GTX 1060
HP	OMEN 15t Gaming	Intel Core i7-8750H	NVIDIA GeForce GTX 1060
HP	OMEN 15-dc0052nr	Intel Core i7-8750H	NVIDIA GeForce 1060
HP	OMEN 15-ce199nr	Intel Core i7-8750H	NVIDIA GeForce 1050 Ti
HP	Pavilion 15-cs0041nr	Intel Core i7-8550U	
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	ProBook 450 G5	Intel® Core™ i7-8550U	NVIDIA GeForce 930MX

Brand	Model	Processor	Graphics card
HP	ProBook 650 G2	Intel Core i7-6600U Intel Core i5-6300U	AMD Radeon R7 M365X
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
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

Brand	Model	Processor	Graphics card
HP	Zbook 15 G4	Intel Core i5-7300HQ Intel Core i7-7700HQ Intel Core i5-7440HQ Intel Core i7-7820HQ Intel Xeon E3-1505M v6 Intel Xeon E3-1535M v6	NVIDIA Quadro M620 NVIDIA Quadro M1200 NVIDIA Quadro M2200
HP	Zbook 15u G3	Intel Core i7-6500U Intel Core i7-6600U Intel Core i5-6300U Intel Core i5-6200U	AMD FirePro W4190M
HP	Zbook 15u G4	Intel Core i7-7600U Intel Core i7-7500U Intel Core i5-7300U Intel Core i5-7200U	AMD FirePro W4190M
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 G3	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ	NVIDIA Quadro M1000M

Brand	Model	Processor	Graphics card
HP	Zbook Studio G5	Intel Core i7-8750H	NVIDIA Quadro P1000
Lenovo	Ideapad 330	Intel® Core™ i7-8750H Intel® Core™ i3-7020U	NVIDIA GeForce GTX 1050
Lenovo	Ideapad 720S	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti
Lenovo	Legion Y520	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1050 Ti
Lenovo	Legion Y530	Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1050 Ti
Lenovo	Legion Y720	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1060
Lenovo	Legion Y730	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti
Lenovo	ThinkPad P1	Intel Core i7-8850H	NVIDIA Quadro P2000
Lenovo	ThinkPad P52	Intel Core i7-8850H	NVIDIA Quadro P3200
Lenovo	ThinkPad P52s	Intel Core i7-8650U	Nvidia Quadro P500
Lenovo	ThinkPad X1 Extreme	Intel Core i7-8850H	NVIDIA GeForce GTX 1050 Ti
Sager	NP9155	8th Gen Intel® Core™ i7-8700 8th Gen Intel® Core™ i7-8700K	NVIDIA GeForce GTX 1070
Sager	NP8955	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1070

Brand	Model	Processor	Graphics card
Sager	NP8955-S	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1070
Sager	NP8954	8th Generation Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1070
Sager	NP8953	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1060
Sager	NP7851	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1060
Sager	NP6853	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1050Ti
Sager	NP5856	8th Gen Intel® Core™ i7-8750H	NVIDIA GeForce GTX 1050
Sager	NP4850	8th Gen Intel® Core™ i5-8300H	NVIDIA GeForce MX150
Sager	NP8154	8th Gen Intel® Core™ i5-8300H	NVIDIA GeForce GTX 1060
Samsung	Notebook Odyssey NP800G5M-X02US 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 11/07/2018.

ABOUT PRINCIPLED TECHNOLOGIES



Principled Technologies, Inc.
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We provide industry-leading technology assessment and fact-based marketing services. We bring to every assignment extensive experience with and expertise in all aspects of technology testing and analysis, from researching new technologies, to developing new methodologies, to testing with existing and new tools.

When the assessment is complete, we know how to present the results to a broad range of target audiences. We provide our clients with the materials they need, from market-focused data to use in their own collateral to custom sales aids, such as test reports, performance assessments, and white papers. Every document reflects the results of our trusted independent analysis.

We provide customized services that focus on our clients' individual requirements. Whether the technology involves hardware, software, websites, or services, we offer the experience, expertise, and tools to help our clients assess how it will fare against its competition, its performance, its market readiness, and its quality and reliability.

Our founders, Mark L. Van Name and Bill Catchings, have worked together in technology assessment for over 20 years. As journalists, they published over a thousand articles on a wide array of technology subjects. They created and led the Ziff-Davis Benchmark Operation, which developed such industry-standard benchmarks as Ziff Davis Media's Winstone and WebBench. They founded and led eTesting Labs, and after the acquisition of that company by Lionbridge Technologies were the head and CTO of VeriTest.

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