

COMPARISON OF 13-INCH-CLASS LAPTOPS

We compared the Dell™ XPS™ 13 laptop to others in its class from vendors including Acer®, Apple®, ASUS®, Fujitsu®, HP, Huawei®, Lenovo®, LG, Microsoft®, Panasonic®, Sager®, Samsung®, Toshiba®, and VAIO®. The figures below compare the systems using publicly available data. Click a system's name to visit its page on the vendor's website. We gathered this data at the links provided on February 22, 2018, and report only what each vendor disclosed on their website.

According to vendor-provided data, the Dell XPS 13:

- is the smallest 13-inch laptop¹
- has the longest battery life of any 13-inch laptop
- has the highest screen-to-body ratio

Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Dell	XPS 13	7.8 -11.6	0.3-0.46	302 x 199	11.9 x 7.8	92.8	2.67 (non-touch) 2.68 (touch)	1.21 (non-touch) 1.21 (touch)
Acer	Swift 1 (SF113-31-P5CK) (SF113-31-P6XP) (SF113-31-P5C5) (SF113-31-P87M)		0.6	320 x 226	12.6 x 8.9	112.1	2.87	
Acer	Aspire S 13 (S5-371-38UZ)		0.57	326 x 288	12.87 x 11.34	145.9	2.87	
Acer	Aspire S 13 (S5-371-3164)		0.57-0.6	328 x 287	12.9 x 11.3	145.8	2.87	
Acer	Aspire S 13 (S5-371T-78TA)		0.57-0.6	328 x 229	12.9 x 9	116.1	3	

¹ The smallest dimensions among laptops with a screen measuring 13.3 inches.



Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Acer	Swift 7 (SF713-51-M90J) (SF713-51-M51W)		0.39	325 x 229	12.8 x 9	115.2	2.48	
Apple	MacBook Air (13-inch)	3mm-17mm	0.11-0.68	325 x 227	12.8 x 8.94	114.4	2.96	1.35
Apple	MacBook Pro (13-inch)	14.9	0.59	304 x 212	11.97 x 8.36	100.1	3.02	1.37
ASUS	ZenBook UX303UA	19.2	0.8	323 x 223	12.7 x 8.8	111.8	3.2	
ASUS	ZenBook UX303UB	19.2	0.8	323 x 223	12.7 x 8.8	111.8	3.2	
ASUS	ZenBook UX305UA		0.63	323 x 226	12.7 x 8.89	112.9	2.86	
ASUS	ZenBook UX305CA		0.5	325 x 226	12.8 x 8.9	113.9	2.65	
ASUS	Zenbook UX305FA		0.5	325 x 226	12.8 x 8.9	113.9	2.6	
ASUS	ZenBook UX306UA		0.54	324 x 226	12.76 x 8.89	113.4	2.9	
ASUS	ZenBook UX330UA		0.53	323 x 221	12.7 x 8.7	110.5	2.64	
Fujitsu	LIFEBOOK U937		0.61-0.67	309 x 213	12.18 x 8.4	102.3	2.03	

Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
HP	Envy 13t		0.55	305 x 216	12.02 x 8.49	102.0	3.06	
HP	EliteBook 1030 G1		0.62	310 x 210	12.2 x 8.27	100.9	2.55	
HP	Spectre - 13 (af051nr)		0.41	312 x 224	12.13 x 8.83	107.1	2.45	
HP	Spectre - 13t		0.41	325 x 229	12.8 x 9.03	115.6	2.45	
HP	ProBook 430 G5		0.78	326 x 234	12.83 x 9.21	118.2	3.28	
Huawei	MateBook X		0.49	286 x 211	11.26 x 8.31	93.6	2.31	
Lenovo	ThinkPad 13 2nd Gen		0.77	322 x 223	12.69 x 8.77	111.3	3.17	
Lenovo	Ideapad 720S		0.5	305.9 x 213.8	12 x 8.4	100.8	2.2	
Lenovo	Ideapad 720S AMD		0.5	305.9 x 213.8	12 x 8.4	100.8	2.5	
Lenovo	Ideapad 710S Plus Touch		0.58	309 x 220	12.16 x 8.66	105.3	2.6	
Lenovo	Ideapad 710S Plus		0.58	309 x 220	12.16 x 8.66	105.3	2.6	
LG	gram (13Z980-A.AAS7U1)		0.6	304 x 211	12 x 8.3	99.6	3.6	

Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
LG	gram (13Z975-A.AAS7U1)		0.6	307 x 211	12.1 x 8.3	100.4	2.07	
LG	gram (13Z980-A.AAS5U1)		0.6	304 x 211	12 x 8.3	99.6	3.6	
LG	gram (13Z970-A.AAS5U1) (13Z970-U.AAW5U1)		0.6	307 x 211	12.1 x 8.3	100.4	2.07	
Microsoft	Surface Laptop		0.57	308 x 223	12.13 x 8.79	106.6	2.76	
Panasonic	Toughbook 31		2.9	292 x 302	11.5 x 11.9	136.9	7.9	
Sager	NP3132 Notebook		0.7	330 x 225	12.98 x 8.86	115.0	2.87	
Samsung	Notebook 9 Pro (NP940X3M-K01US) (NP940X3M-K03US)		0.63	310 x 217	12.21 x 8.54	104.3	2.9	
Samsung	Notebook 9 (NP900X3L-K06US)		0.53	314 x 218	12.35 x 8.6	106.2	2.8	
Samsung	Notebook 9 (NP900X3N-K01US) (NP900X3N-K04US)		0.55	309 x 208	12.18 x 8.19	99.8	1.8	
Toshiba	Portege X30		0.6	315 x 226	12.4 x 8.9	110.4	2.31	
Toshiba	Portege A30		0.84	315 x 229	12.4 x 9	111.6	3.44	

Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Toshiba	Portege Z30		0.55-0.70	315 x 226	12.4 x 8.9	110.4	2.65	
VAIO	VAIO Z		0.59-0.66	324 x 215	12.76 x 8.48	108.2	2.58	
VAIO	VAIO S (VJZ131X0211S)		0.52-0.71	322 x 217	12.68 x 8.53	108.2	2.58	
VAIO	VAIO S (VJZ131X0111S)		0.59-0.66	322 x 217	12.76 x 8.48	108.2	2.58	
VAIO	New VAIO S (VJS132X0111B)		0.52-0.71	322 x 217	12.68 x 8.53	108.2	2.34	

Figure 1: Dimensional information. All links and data current as of 02/21/2018.

Brand	Model	Battery info	Battery claim
Dell	XPS 13	52Whr battery	Up to 19 hours, 46 minutes (MM14)
Acer	Swift 1 (SF113-31-P5CK) (SF113-31-P6XP) (SF113-31-P5C5) (SF113-31-P87M)	3-cell Lithium Ion	10 hours
Acer	Aspire S 13 (S5-371-38UZ)	3-cell Lithium Ion (Li-Ion) 4030 mAh	11 hours
Acer	Aspire S 13 (S5-371-3164)	3-cell Lithium Ion (Li-Ion) 4030 mAh	11 hours listed on the overview page 13 hours listed on the features page
Acer	Aspire S 13 (S5-371T-78TA)	3-cell Lithium Polymer (Li-Po) 4670 mAh	11 hours listed on the overview page 13 hours listed on the features page
Acer	Swift 7 (SF713-51-M90J) (SF713-51-M51W)	4-cell Lithium Ion (Li-Ion) 2770 mAh	9 hours
Apple	MacBook Air (13-inch)	Built-in 54 Wh Li-Po battery	12 hours wireless Web time 12 hours iTunes Movie Playback
Apple	MacBook Pro (13-inch)	Built-in 49.2 Wh Li-Po battery	10 hours wireless Web time 10 hours iTunes Movie Playback
ASUS	ZenBook UX303UA	3-cells Polymer Battery 50 Whrs	7 hours
ASUS	ZenBook UX303UB	3-cells Polymer Battery 50 Whrs	7 hours
ASUS	ZenBook UX305UA	56 Whrs Polymer Battery	12 hours

Brand	Model	Battery info	Battery claim
ASUS	ZenBook UX305CA	45 Whrs Polymer Battery	10 hours (MM2014)
ASUS	Zenbook UX305FA	44 Whrs Polymer Battery	10 hours daily working 8 hours video playing
ASUS	ZenBook UX306UA	57 Whrs	7 hours
ASUS	ZenBook UX330UA	57 Whrs Polymer Battery	Up to 12 Hours web browsing
Fujitsu	LIFEBOOK U937	Li-Ion battery 4-cell, 50 Wh	Up to 15 hours and 30 mins (MM2014)
HP	Envy 13t	6-cell, 53.6 Wh Li-ion	Up to 14 hours and 15 mins with FHD panel (MM2014) Up to 10 hours with UHD panel (MM2014)
HP	EliteBook 1030 G1	4-cell, 40 WHr Li-ion	No official claim. LAPTOP Magazine claims 13 hours.
HP	Spectre - 13 (af051nr)	4-cell 43.7 Wh Li-ion	Up to 11 hours
HP	Spectre - 13t	4-cell 38 Wh Li-ion	9 hours and 45 minutes
HP	ProBook 430 G5	3-cell, 48 WHr Li-ion	Up to 17 hours and 30 minutes ((MM2014)
Huawei	MateBook X	41.4 Wh (5449mAh@7.6V)	No official claim. LAPTOP Magazine claims 8 hours 41 minutes via their Laptop Mag Battery Test.
Lenovo	ThinkPad 13 2nd Gen	3-cell, 42 Wh,	Up to 11 hours

Brand	Model	Battery info	Battery claim
Lenovo	Ideapad 720S	4-cell, 48 Wh	Up to 9 hours
Lenovo	Ideapad 720S AMD	4-cell, 48 Wh	Up to 9.5 hours
Lenovo	Ideapad 710S Plus Touch	46 Wh	Up to 7 hours
Lenovo	Ideapad 710S Plus	46 Wh	Up to 7 hours
LG	gram (13Z980-A.AAS7U1)	4-cell, 72 Wh	Up to 18 hours
LG	gram (13Z975-A.AAS7U1)	60 Wh	Up to 15 hours
LG	gram (13Z980-A.AAS5U1)	4-cell, 72 Wh	Up to 18 hours
LG	gram (13Z970-A.AAS5U1) (13Z970-U.AAW5U1)	60 Wh	Up to 15 hours
Microsoft	Surface Laptop	Not listed	Up to 14.5 hours
Panasonic	Toughbook 31	60 Wh	Up to 18 hours
Sager	NP3132 Notebook	Embedded Polymer Smart Lithium-Ion, 36 Wh	No official claim No 3rd party claim
Samsung	Notebook 9 Pro (NP940X3M-K01US) (NP940X3M-K03US)	4-cell / Li-Ion 54 Wh	Up to 11.5 hours (MM2014)

Brand	Model	Battery info	Battery claim
Samsung	Notebook 9 (NP900X3L-K06US)	2-cell / Li-Ion 30 Wh	10 hours (MM2007) 7.5 hours (MM2014)
Samsung	Notebook 9 (NP900X3N-K01US) (NP900X3N-K04US)	2-cell / Li-Ion 30 Wh	No official claim. Laptop Suggest claims up to 10 hours of moderate-to-light use
Toshiba	Portege X30	4-cell, Li-Ion, 45 Wh	No official claim. Notebook Check claims 14 hours, 58 min (Idle, without WLAN, min brightness) and 7 hours (WiFi Surfing).
Toshiba	Portege A30	4-cell, Li-Ion, 45 Wh	11 hours (MM2014)
Toshiba	Portege Z30	4-cell, Li-Ion, 52 Wh	15.25 hours (MM2014)
VAIO	VAIO Z	Lithium Polymer	Up to 15 hr and 30 min
VAIO	VAIO S (VJZ131X0211S)	Lithium Polymer	Up to 15 hr
VAIO	VAIO S (VJZ131X0111S)	Lithium Polymer	Up to 13 hr 45 min
VAIO	New VAIO S (VJS132X0111B)	Lithium Polymer	Up to 9 hr

Figure 2: Battery information. All links and data current as of 02/21/2018.

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
Dell	XPS 13	48,764	60,098	81.1%	16:9
Acer	Swift 1 (SF113-31-P5CK) (SF113-31-P6XP) (SF113-31-P5C5) (SF113-31-P87M)	48,764	72,320	67.4%	16:9
Acer	Aspire S 13 (S5-371-38UZ)	48,764	93,888	51.9%	16:9
Acer	Aspire S 13 (S5-371-3164)	48,764	94,136	51.8%	16:9
Acer	Aspire S 13 (S5-371T-78TA)	48,764	75,112	64.9%	16:9
Acer	Swift 7 (SF713-51-M90J) (SF713-51-M51W)	48,764	74,425	65.5%	16:9
Apple	MacBook Air (13-inch)	51,291	73,775	69.5%	16:10
Apple	MacBook Pro (13-inch)	51,291	64,448	79.6%	16:10
ASUS	ZenBook UX303UA	48,764	72,029	67.7%	16:9
ASUS	ZenBook UX303UB	48,764	72,029	67.7%	16:9
ASUS	ZenBook UX305UA	48,764	72,998	66.8%	16:9

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
ASUS	ZenBook UX305CA	48,764	73,450	66.4%	16:9
ASUS	Zenbook UX305FA	48,764	73,450	66.4%	16:9
ASUS	ZenBook UX306UA	48,764	73,224	66.6%	16:9
ASUS	ZenBook UX330UA	48,764	71,383	68.3%	16:9
Fujitsu	LIFEBOOK U937	48,764	65,817	74.1%	16:9
HP	Envy 13t	48,764	65,880	74.0%	16:9
HP	EliteBook 1030 G1	48,764	65,100	74.9%	16:9
HP	Spectre - 13 (af051nr)	48,764	69,888	69.8%	16:9
HP	Spectre - 13t	48,764	74,425	65.5%	16:9
HP	ProBook 430 G5	48,764	76,284	63.9%	16:9
Huawei	MateBook X	50,322	60,346	83.4%	3:2
Lenovo	ThinkPad 13 2nd Gen	48,764	71,806	67.9%	16:9

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
Lenovo	Ideapad 720S	48,764	65,401	74.6%	16:9
Lenovo	Ideapad 720S AMD	48,764	65,401	74.6%	16:9
Lenovo	Ideapad 710S Plus Touch	48,764	67,980	71.7%	16:9
Lenovo	Ideapad 710S Plus	48,764	67,980	71.7%	16:9
LG	gram (13Z980-A.AAS7U1)	48,764	64,144	76.0%	16:9
LG	gram (13Z975-A.AAS7U1)	48,764	64,777	75.3%	16:9
LG	gram (13Z980-A.AAS5U1)	48,764	64,144	76.0%	16:9
LG	gram (13Z970-A.AAS5U1) (13Z970-U.AAW5U1)	48,764	64,777	75.3%	16:9
Microsoft	Surface Laptop	54,268	68,684	79.0%	3:2
Panasonic	Toughbook 31	53,144	88,184	60.3%	4:3
Sager	NP3132 Notebook	48,764	74,250	65.7%	16:9
Samsung	Notebook 9 Pro (NP940X3M-K01US) (NP940X3M-K03US)	48,764	67,270	72.5%	16:9

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
Samsung	Notebook 9 (NP900X3L-K06US)	48,764	68,452	71.2%	16:9
Samsung	Notebook 9 (NP900X3N-K01US) (NP900X3N-K04US)	48,764	64,272	75.9%	16:9
Toshiba	Portege X30	48,764	71,190	68.5%	16:9
Toshiba	Portege A30	48,764	72,135	67.6%	16:9
Toshiba	Portege Z30	48,764	71,190	68.5%	16:9
VAIO	VAIO Z	48,764	69,660	70.0%	16:9
VAIO	VAIO S (VJZ131X0211S)	48,764	69,874	69.8%	16:9
VAIO	VAIO S (VJZ131X0111S)	48,764	69,874	69.8%	16:9
VAIO	New VAIO S (VJS132X0111B)	48,764	69,874	69.8%	16:9

Figure 3: Screen information. All links and data current as of 02/21/2018.

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