

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 08/20/2018, 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 highest screen-to-body ratio (based on footprint) in its class

Brand	Model	Thickness		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-P6XP) (SF113-31-P5C5) (SF113-31-P87M) (SF113-31-P2VH)		0.6	320 x 226	12.6 x 8.9	112.1	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	326 x 228	12.87 x 8.98	115.5	3.00	

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



Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Acer	Swift 7 (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	3.20	
ASUS	ZenBook UX303UB	19.2	0.8	323 x 223	12.7 x 8.8	111.8	3.20	
ASUS	ZenBook UX305UA		0.63	323 x 226	12.7 x 8.89	112.9	2.86	
ASUS	Zenbook UX305FA		0.5	325 x 226	12.8 x 8.9	113.9	2.60	
ASUS	ZenBook UX306UA		0.54	324 x 226	12.76 x 8.89	113.4	2.90	
ASUS	ZenBook UX330UA		0.53	323 x 221	12.7 x 8.7	110.5	2.64	
ASUS	ZenBook 13 UX331UA		0.55	309 x 215	12.2 x 8.5	103.7	2.50	
ASUS	ZenBook UX331UN		0.5	309 x 215	12.2 x 8.5	103.7	2.50	
Fujitsu	LIFEBOOK S938		1.13	316 x 214	12.44 x 8.43	104.8	2.62 (non touch) 2.91 (touch)	

Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Fujitsu	LIFEBOOK S937		1.13	316 x 214	12.44 x 8.43	104.8	2.62 (non touch) 2.91 (touch)	
Fujitsu	LIFEBOOK S936		1.13	316 x 214	12.44 x 8.43	104.8	2.62 (non touch) 2.91 (touch)	
Fujitsu	LIFEBOOK U938		0.61-0.67	309 x 213	12.18 x 8.4	102.3	2.03	
Fujitsu	LIFEBOOK U937		0.61-0.67	309 x 213	12.18 x 8.4	102.3	2.03	
HP	Envy 13t		0.59	307 x 212	12.09 x 8.35	101.0	2.71	
HP	EliteBook 1030 G1		0.62	310 x 210	12.2 x 8.27	100.9	2.55	
HP	EliteBook 830 G5		0.7	310 x 229	12.22 x 9.03	110.3	2.94 (non-touch) 3.32 (touch)	
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	
Huawei	MateBook X Pro		0.57	304 x 217	11.96 x 8.54	102.1	2.93	
Lenovo	ThinkPad L380		0.74	321 x 224	12.67 x 8.82	111.7	3.22	
Lenovo	IdeaPad 720S		0.5	305.9 x 213.8	12 x 8.4	100.8	2.2	

Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Lenovo	Ideapad 720S AMD		0.5	305.9 x 213.8	12 x 8.4	100.8	2.5	
LG	gram (13Z980-A.AAS7U1)		0.6	304 x 211	12 x 8.3	99.6	3.6	
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 (13Z980-U.AAW5U1)		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	

Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		pounds	kg
Samsung	Notebook 9 (NP900X3L-K06US)		0.53	314 x 218	12.35 x 8.6	106.2	2.8	
Samsung	Notebook 9 (NP900X3T-K02US) (NP900X3T-K01US)		0.59	309 x 208	12.18 x 8.19	99.8	2.2	
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	
Toshiba	Portege Z30		0.55-0.70	315 x 226	12.4 x 8.9	110.4	2.65	
VAIO	VAIO S (VJS132X0611S) (VJS132X0511S) (VJS132X0411S) (VJS132X0311S)		0.59-0.70	320 x 216	12.61 x 8.53	107.6	2.34	

Figure 1: Dimensional information. All links and data current as of 08/20/2018.

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-P6XP) (SF113-31-P5C5) (SF113-31-P87M) (SF113-31-P2VH)	48,764	72,320	67.4%	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	74,328	65.6%	16:9
Acer	Swift 7 (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 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
ASUS	ZenBook 13 UX331UA	48,764	66,435	73.4%	16:9
ASUS	ZenBook UX331UN	48,764	66,435	73.4%	16:9
Fujitsu	LIFEBOOK S938	47,526	67,624	70.3%	16:9
Fujitsu	LIFEBOOK S937	48,764	67,624	72.1%	16:9
Fujitsu	LIFEBOOK S936	48,764	67,624	72.1%	16:9
Fujitsu	LIFEBOOK U938	48,764	65,817	74.1%	16:9
Fujitsu	LIFEBOOK U937	48,764	65,817	74.1%	16:9
HP	Envy 13t	48,764	65,084	74.9%	16:9
HP	EliteBook 1030 G1	48,764	65,100	74.9%	16:9
HP	EliteBook 830 G5	48,764	70,990	68.7%	16:9
HP	ProBook 430 G5	48,764	76,284	63.9%	16:9

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
Huawei	MateBook X	50,322	60,346	83.4%	3:2
Huawei	MateBook X Pro	57,531	65,968	87.2%	3:2
Lenovo	ThinkPad L380	48,764	71,904	67.8%	16:9
Lenovo	Ideapad 720S	48,764	65,401	74.6%	16:9
Lenovo	Ideapad 720S AMD	48,764	65,401	74.6%	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 (13Z980-U.AAW5U1)	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

Brand	Model	Panel active area (sq. mm)	System active area (sq. mm)	Screen-to-body ratio	Aspect ratio
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
Samsung	Notebook 9 (NP900X3L-K06US)	48,764	68,452	71.2%	16:9
Samsung	Notebook 9 (NP900X3T-K02US) (NP900X3T-K01US)	48,764	64,272	75.9%	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 S (VJS132X0611S) (VJS132X0511S) (VJS132X0411S) (VJS132X0311S)	48,764	69,120	70.6%	16:9

Figure 3: Screen information. All links and data current as of 08/20/2018.

ABOUT PRINCIPLED TECHNOLOGIES



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

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, Web sites, 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.

Principled Technologies is a registered trademark of Principled Technologies, Inc.
All other product names are the trademarks of their respective owners.

Disclaimer of Warranties; Limitation of Liability:

PRINCIPLED TECHNOLOGIES, INC. HAS MADE REASONABLE EFFORTS TO ENSURE THE ACCURACY AND VALIDITY OF ITS TESTING, HOWEVER, PRINCIPLED TECHNOLOGIES, INC. SPECIFICALLY DISCLAIMS ANY WARRANTY, EXPRESSED OR IMPLIED, RELATING TO THE TEST RESULTS AND ANALYSIS, THEIR ACCURACY, COMPLETENESS OR QUALITY, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE. ALL PERSONS OR ENTITIES RELYING ON THE RESULTS OF ANY TESTING DO SO AT THEIR OWN RISK, AND AGREE THAT PRINCIPLED TECHNOLOGIES, INC., ITS EMPLOYEES AND ITS SUBCONTRACTORS SHALL HAVE NO LIABILITY WHATSOEVER FROM ANY CLAIM OF LOSS OR DAMAGE ON ACCOUNT OF ANY ALLEGED ERROR OR DEFECT IN ANY TESTING PROCEDURE OR RESULT.

IN NO EVENT SHALL PRINCIPLED TECHNOLOGIES, INC. BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH ITS TESTING, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL PRINCIPLED TECHNOLOGIES, INC.'S LIABILITY, INCLUDING FOR DIRECT DAMAGES, EXCEED THE AMOUNTS PAID IN CONNECTION WITH PRINCIPLED TECHNOLOGIES, INC.'S TESTING. CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES ARE AS SET FORTH HEREIN.
