

COMPARISON OF 13-INCH CLASS NOTEBOOKS

For comparison to the Dell™ XPS™ 13 notebook, we identified 13-inch-class notebooks that are currently shipping from the following vendors: Acer®, Apple®, ASUS®, Fujitsu®, HP, Lenovo®, Samsung®, and Toshiba®. Figures 1 through 3 compare the systems, which have a 13.3 inch screen size unless otherwise noted, using publically available data at each vendor’s respective website. We gathered this data at the links provided on 02/05/2016, and report only what each vendor disclosed on their sites. Dell provided us with information about the Dell XPS 13 9350 notebook.

According to vendor-provided data, compared to notebooks we gathered information about in Figures 1 through 3, the Dell XPS 13 9350:

- is the smallest 13-inch notebook¹
- is 17.5 percent smaller than the MacBook Air® (13-inch)
- has the longest reported battery life (18 hours) of any 13-inch laptop

Brand	Model	Battery info	Battery life claims
Dell	XPS 13 9350	56Whr, 4-cell battery	18 hours, 14 minutes
Acer	Aspire S7 (S7-393-7451)	4-cell Lithium Ion (Li-Ion) 3220 mAh	10 hours
Acer	Aspire S7 (S7-393-7616)	4-cell Lithium Ion (Li-Ion) 3220 mAh	8.5 hours
Acer	Aspire R 13 (R7-371T-5009) (R7-371T-74UM) (R3-371T-70NY)	4-cell Lithium Ion (Li-Ion) 3220 mAh	10 hours
Acer	Aspire R 13 (R7-371T-77LE)	4-cell Lithium Ion (Li-Ion) 3220 mAh	8 hours
Acer	Aspire R 13 (R7-371T-78XG)	4-cell Lithium Ion (Li-Ion) 3220 mAh	7.5 hours
Acer	Aspire R 13 (R7-371T-59Q1)	4-cell Lithium Ion (Li-Ion) 3220 mAh	8 hours
Acer	Aspire V (V3-371-57JZ)	4-cell Lithium Ion (Li-Ion) 3220 mAh	Next Gen Notebooks claims 7.5 hours

¹ Used in this report, the smallest refers to the total surface area of the notebook.



Brand	Model	Battery info	Battery life claims
Acer	Aspire V (V3-371-596F/V3-331-P0QW)	4-cell Lithium Ion (Li-Ion) 3220 mAh	6.5 hours
Acer	Aspire V 13 (V3-372T-5051)	4-cell Lithium Ion (Li-Ion) 3220 mAh	12.5 hours
Apple	MacBook Air (13-inch)	Built-in 54Wh Li-Po battery	12 hours wireless Web time 12 hours iTunes Movie Playback 30 days Standby time
Apple	MacBook Pro (13-inch with Retina Display)	Built-in 74.9Wh Li-Po battery	10 hours wireless Web time 12 hours iTunes Movie Playback 30 days Standby time
ASUS	ZenBook UX303UA	3Cells 50 Whrs Polymer Battery	7 hours
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
Fujitsu	LIFEBOOK E734	Li-Ion battery 6-cell, 63 Wh Li-Ion battery 6-cell, 72 Wh	13 hrs and 10 min (with 72 Wh battery)
Fujitsu	LIFEBOOK E736	Li-Ion battery 6-cell, 5,600/5,800 mAh, 63 Wh Li-Ion battery 6-cell, 6,400/6,700 mAh, 72 Wh	14 hours MM2014
Fujitsu	LIFEBOOK S935	Li-Ion battery 4-cell, 3,550 mAh, 51 Wh Li-Ion battery 6-cell, 7,100 mAh, 77 Wh	18 hours MM2014
Fujitsu	LIFEBOOK S936	Li-Ion battery 4-cell, 3,550 mAh, 51 Wh Li-Ion battery 6-cell, 7,100 mAh, 77 Wh	18 hours MM2014
HP	ProBook 430 G3	4-cell, 44 WHr Li-ion	7 hours and 15 minutes
HP	Pavillion x360 – 13t Touch Laptop	3-cell 48WHr Lithium-ion Battery	10 hours and 45 minutes
HP	HP Pavilion x360 – 13-s120nr	3-cell, 48 Wh prismatic	10 hours

Brand	Model	Battery info	Battery life claims
HP	HP Spectre x360 – 13-4102dx	3-cell, 56 Wh Li-ion polymer	12.5 hours
HP	HP Spectre x360 – 13t Laptop	3-cell, 56 Wh Li-ion polymer	12.5 hours
HP	Spectre x360 (13-4163nr/13-4165nr/13-4118nr)	3-cell, 56 Wh Li-ion	12.5 hours
HP	Spectre Pro x360 G1	3 Cell 56 WHr	CDW claims 12.5 hours
HP	ENVY (13t Laptop/13 d010nr)	3-cell 45WHr Lithium-ion Battery	10 hours (MM2014)
HP	Stream Notebook (13-c120nr/13-c110nr)	3-cell 37 Wh Li-ion	8 hours
Lenovo	Yoga 900	4 Cell 66 Watt Hour Li-Polymer	9 hours
Lenovo	Yoga 3 Pro	4 Cell 44.8 WHr Li-Polymer	7.2 hours
Lenovo	U31	2 Cell 35 Watt Hour Li-Polymer	4 hours
Samsung	Series 9 Premium Ultrabook	4-cell / Li-Po 62 WHr	9 hours
Samsung	ATIV Book 9 Plus (NP940X3K-K03US)	4-cell / Li-Po 55 Wh	7.3 hours (MM 2012)
Samsung	ATIV Book 9 Plus (NP940X3G-K02US)	4-cell / Li-Po 55.5 Wh	12 hours
Samsung	ATIV Book 9 Plus (NP940X3G-S01US)	4-cell / Li-Po 55.5 Wh	11 hours
Samsung	ATIV Book 9 Plus (NP940X3G-S02US)	4-cell / Li-Po 55.5 Wh	12 hours
Samsung	ATIV Book 9 Plus (NP940X3K-S01US) (NP940X3K-S02US)	4-cell / Li-Po 55 Wh	12.5 hours

Brand	Model	Battery info	Battery life claims
Samsung	ATIV Book 9 (NP900X3G-S01US) (NP900X3G-S02US)	4 Cell / Li-Po 44Wh	10 hours
Samsung	ATIV Book 9 (NP900X3K-K01US) (NP900X3K-K02US) (NP900X3K-S01US) (NP900X3K-S02US)	4 Cell / Li-Po 44Wh	10 hours (MM 2007)
Samsung	ATIV Book 9 Spin	2 cell / Li-Po 39Wh	7.3 hours (MM 2014)
Toshiba	Portege R30 (ASMBN22)	6-cell / Li-Ion 66Wh 9-cell /Li-Ion 93 Wh battery pack optional	8 hours 30 minutes (MM Productivity 2012, Core i5-4200M, Windows 8.1, 6-cell battery) 9 hours 10 minutes (MM Productivity 2012, Core i7-4700MQ, Windows 8.1, 6-cell battery)
Toshiba	Portege R30 (BT1300/A1310/A1320)	6-cell / Li-Ion 66Wh 9-cell /Li-Ion 93 Wh battery pack optional	8 hours 30 minutes (MM Productivity 2012, Core i5-4200M, Windows 8.1, 6-cell battery)
Toshiba	Portege Z30 (BST3NX5/BST3NX6/BSMBNX3/BSMBNX4/B1320)	4 cell/52Wh Lithium Ion	15.08 hours using Windows 8.1 (MM Productivity 2012)
Toshiba	Portege Z30 (BSMBN 22/BBT130)	4 cell/52Wh Lithium Ion	15.08 hours using Windows 8.1 (MM Productivity 2012)
Toshiba	KIRAbok 13 i7S1X Touch Laptop	4-cell / Li-Po 52Wh	CNET claims 8 hours 50 minutes (Video playback) 5 hours 26 minutes (HD Streaming Video)

Figure 1: Battery information. All links and data current as of 02/05/2016.

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Dell	XPS 13 (9350 - Dino 2)	9mm-15mm	0.33-0.6	304 × 200	11.98 × 7.88	94.4	2.6	1.18
Acer	Aspire S7 (S7-393-7451)		0.5		12.7 × 8.8	111.76	2.87	
Acer	Aspire S7 (S7-393-7616)		0.5		12.7 × 8.8	111.76	2.87	
Acer	Aspire R 13 (R7-371T-5009) (R7-371T-74UM) (R3-371T-70NY)		0.7		13.5 × 9.1	122.85	3.31	
Acer	Aspire R 13 (R7-371T-77LE)		0.7		13.5 × 9.1	122.85	3.53	
Acer	Aspire R 13 (R7-371T-78XG)		0.7		13.5 × 9.1	122.85	3.31	
Acer	Aspire R 13 (R7-371T-59Q1)		0.7		13.5 × 9.1	122.85	3.31	
Acer	Aspire V (V3-371-57JZ)		0.8		12.9 × 9	116.1	3.31	
Acer	Aspire V (V3-371-596F/V3-331-POQW)		0.8		12.9 × 9	116.1	3.31	
Acer	Aspire V 13 (V3-372T-5051)		0.8		12.9 × 9	116.1	3.53	
Apple	MacBook Air (13-inch)	3mm-17mm	0.11-0.68	325 × 227	12.8 × 8.94	114.432	2.96	1.35
Apple	MacBook Pro (13-inch with Retina Display)	18	0.71	314 × 219	12.35 × 8.62	106.457	3.48	1.58
ASUS	ZenBook UX303UA	19.2		323 × 223	12.7 × 8.8	111.76		1.45
ASUS	ZenBook UX305CA		0.5		12.8 × 8.9	113.92	2.65	
ASUS	ZenBook UX305FA		0.5		12.8 × 8.9	113.92	2.6	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Fujitsu	LIFEBOOK E734		0.78-1.06		12.64 x 8.98	113.5072	3.73	
Fujitsu	LIFEBOOK E736		0.78-1.06		12.63 x 8.97	113.29	3.5	
Fujitsu	LIFEBOOK S935		1.04		12.56 x 8.46	106.26	2.73	
Fujitsu	LIFEBOOK S936		1.03		12.44 x 8.43	104.87	2.62	
HP	ProBook 430 G3		0.78-0.83 (Non touch) 0.84-0.88 (Touch)		12.83 x 9.19 (Non touch) 12.83 x 9.2 (Touch)	117.91 (Non touch) 118.04 (Touch)	3.31	
HP	Pavillion x360 – 13t Touch Laptop		0.89		12.89 x 8.8	113.432	3.77	
HP	HP Pavilion x360 – 13-s120nr		0.89		12.89 x 8.8	113.432	3.77	
HP	HP Spectre x360 – 13-4102dx		0.63		12.79 x 8.6	109.99	3.17	
HP	HP Spectre x360 – 13t Laptop		0.63		12.79 x 8.6	109.99	3.26	
HP	Spectre x360 (13-4163nr/13-4165nr/13-4118nr)		0.63		12.79 x 8.6	109.99	3.17	
HP	Spectre Pro x360 G1		0.61		12.79 x 8.58	109.74	3.2	
HP	ENVY (13t Laptop/13 d010nr)		0.51		12.85 x 8.9	114.37	3	
HP	Stream Notebook (13-c120nr/13-c110nr)		0.77		13.12 x 9.02	118.34	3.42	
Lenovo	Yoga 900	14.9	0.59	324 x 225	12.75 x 8.86	112.97	2.8	1.3
Lenovo	Yoga 3 Pro		0.5		13 x 9	117	2.62	
Lenovo	U31		0.76		12.72 x 9.06	115.24	3.31	
Samsung	Series 9 Premium Ultrabook		0.51		12.3 x 8.6	105.78	2.49	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Samsung	ATIV Book 9 Plus (NP940X3K-K03US)		0.54		12.58 × 8.78	110.45	3.06	
Samsung	ATIV Book 9 Plus (NP940X3G-K02US)		0.54		12.58 × 8.76	110.2	2.87	
Samsung	ATIV Book 9 Plus (NP940X3G-S01US)		0.54		12.58 × 8.76	110.2	3.06	
Samsung	ATIV Book 9 Plus (NP940X3G-S02US)		0.54		12.58 × 8.76	110.2	3.06	
Samsung	ATIV Book 9 Plus (NP940X3K-S01US) (NP940X3K-S02US)		0.54		12.58 × 8.78	110.45	3.02	
Samsung	ATIV Book 9 (NP900X3G-S01US) (NP900X3G-S02US)		0.52		12.35 × 8.6	106.21	2.49	
Samsung	ATIV Book 9 (NP900X3K-K01US) (NP900X3K-K02US) (NP900X3K-S01US) (NP900X3K-S02US)		0.53		12.35 × 8.6	106.21	2.36	
Samsung	ATIV Book 9 Spin		0.59		12.39 × 8.69	107.67	2.87	
Toshiba	Portege R30 (ASMBN22)		0.71–1.04		12.44 × 8.94	111.21	3.37	
Toshiba	Portege R30 (BT1300/A1310/A1320)		0.71–1.04		12.44 × 8.94	111.21	3.37	
Toshiba	Portege Z30 (BST3NX5/BST3NX6/BSMBNX3/BSMBNX4/B1320)	13.9-17.9	0.55-0.70	316 x 227	12.44 × 8.94	111.21	3	1.35
Toshiba	Portege Z30 (BSMBN22/BBT130)	13.9-17.9	0.55-0.70	316 x 227	12.44 × 8.94	111.21	3	1.35

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Toshiba	KIRAbook 13 i7S1X Touch Laptop		0.7		12.44 × 8.15	101.39	2.91	

Figure 2: Dimension information. All links and data current as of 02/05/2016

Brand	Model	Screen	Screen Resolution		Pixels
			Vertical	Horizontal	
Dell	XPS 13 (9350 - Dino 2)	9mm-15mm	13.3	3,200	1,800
Acer	Aspire S7 (S7-393-7451)		13.3	1,920	1,080
Acer	Aspire S7 (S7-393-7616)		13.3	2,560	1,440
Acer	Aspire R 13 (R7-371T-5009) (R7-371T-74UM) (R3-371T-70NY)		13.3	1,920	1,080
Acer	Aspire R 13 (R7-371T-77LE)		13.3	1,920	1,080
Acer	Aspire R 13 (R7-371T-78XG)		13.3	2,560	1,440
Acer	Aspire R 13 (R7-371T-59Q1)		13.3	1,920	1,080
Acer	Aspire V (V3-371-57JZ)		13.3	1,366	768
Acer	Aspire V (V3-371-596F/V3-331-P0QW)		13.3	1,366	768
Acer	Aspire V 13 (V3-372T-5051)		13.3	1,920	1,080
Apple	MacBook Air (13-inch)	3mm-17mm	13.3	1,440	900
Apple	MacBook Pro (13-inch with Retina Display)	18	13.3	2,560	1,600
ASUS	ZenBook UX303UA	19.2	13.3	3,200	1,800
ASUS	ZenBook UX305CA		13.3	3,200	1,800
ASUS	ZenBook UX305FA		13.3	3,200	1,800
Fujitsu	LIFEBOOK E734		13.3	1,366	768
Fujitsu	LIFEBOOK E736		13.3	1,920	1,080
Fujitsu	LIFEBOOK S935		13.3	2,560	1,440
Fujitsu	LIFEBOOK S936		13.3	2,560	1,440
HP	ProBook 430 G3		13.3	1,366	768
HP	Pavillion x360 – 13t Touch Laptop		13.3	1,920	1,080
HP	HP Pavilion x360 – 13-s120nr		13.3	1,366	768
HP	HP Spectre x360 – 13-4102dx		13.3	2,560	1,440
HP	HP Spectre x360 – 13t Laptop		13.3	2,560	1,440
HP	Spectre x360 (13-4163nr/13-4165nr/13-4118nr)		13.3	1,920	1,080

Brand	Model	Screen	Screen Resolution		Pixels
			Vertical	Horizontal	
HP	Spectre Pro x360 G1		13.3	2,560	1,440
HP	ENVY (13t Laptop/13 d010nr)		13.3	3,200	1,800
HP	Stream Notebook (13-c120nr/13-c110nr)		13.3	1,366	768
Lenovo	Yoga 900	14.9	13.3	3,200	1,899
Lenovo	Yoga 3 Pro		13.3	3,200	1,800
Lenovo	U31		13.3	1,,920	1,080
Samsung	Series 9 Premium Ultrabook		13.3	1,600	900
Samsung	ATIV Book 9 Plus (NP940X3K-K03US)		13.3	3,200	1,800
Samsung	ATIV Book 9 Plus (NP940X3G-K02US)		13.3	3,200	1,800
Samsung	ATIV Book 9 Plus (NP940X3G-S01US)		13.3	3,200	1,800
Samsung	ATIV Book 9 Plus (NP940X3G-S02US)		13.3	3,200	1,800
Samsung	ATIV Book 9 Plus (NP940X3K-S01US) (NP940X3K-S02US)		13.3	3,200	1,800
Samsung	ATIV Book 9 (NP900X3G-S01US) (NP900X3G-S02US)		13.3	1,920	1,080
Samsung	ATIV Book 9 (NP900X3K-K01US) (NP900X3K-K02US) (NP900X3K-S01US) (NP900X3K-S02US)		13.3	3,200	1,800
Samsung	ATIV Book 9 Spin		13.3	3,200	1,800
Toshiba	Portege R30 (ASMBN22)		13.3	1,920	1,080
Toshiba	Portege R30 (BT1300/A1310/A1320)		13.3	1,366	768
Toshiba	Portege Z30 (BST3NX5/BST3NX6/BSMBNX3/BSMBNX4/B1320)	13.9-17.9	13.3	1,366	768

Brand	Model	Screen	Screen Resolution		Pixels
			Vertical	Horizontal	
Toshiba	Portege Z30 (BSMBN 22/BBT130)	13.9-17.9	13.3	1,920	1,080
Toshiba	KIRAbok 13 i7S1X Touch Laptop		13.3	2,560	1,440

Figure 3: Screen information on the notebooks. All links and data current as of 02/05/2016.

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