

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 09/09/2015 (click on model names to follow them) 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	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		Lbs.	Kg.
Dell	XPS 13 9350	9–15	0.33–0.6	304 × 200	11.98 × 7.88	94.4024	2.60	1.18
Acer	Aspire® S7 (S7-392-7451)		0.51		12.7 × 8.8	111.76	2.87	
Acer	Aspire R 13 (R7-371T-57SN)		0.7		13.5 × 9.1	122.85	3.31	
Acer	Aspire V (V3-371-596F)		0.77		12.9 × 9	116.1	3.31	
Apple	MacBook Air® (13-inch)	3–17	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 UX301LA	15.5		325 × 226				1.4
ASUS	Zenbook UX305FA		0.5		12.8 × 8.9	113.92	2.6	
ASUS	Zenbook UX303LN	19.2		323 × 223		111.76		1.45
ASUS	Zenbook UX303LA		0.7-0.8		12.7 × 8.8	111.76	3.2	

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



Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		Lbs.	Kg.
Fujitsu	LIFEBOOK® E734	20-27	0.78–1.06	321 x 228	12.64 x 8.98	113.5072	<ul style="list-style-type: none"> From 3.5lbs (including weight saver; weight may vary depending on actual configuration) 	From 1.6
Fujitsu	LIFEBOOK T935	17.1-19.3	0.67-0.76	321 x 235	12.64 x 9.25	116.92	<ul style="list-style-type: none"> From 3.5lbs (weight may vary depending on actual configuration, including battery pack) 	From 1.6
Fujitsu	LIFEBOOK T904	17.1-19.3	0.67-0.76	321 x 235	12.64 x 9.25	116.92	<ul style="list-style-type: none"> From 3.5lbs. Weight may vary depending on actual configuration, including battery pack) 	From 1.6
HP	ProBook 430 G2 Notebook PC	<ul style="list-style-type: none"> 20-21 (front to rear, non-touch) 21.3-22.5 (front 	<ul style="list-style-type: none"> 0.79-0.83 (front to rear, non-touch) 0.84-0.89 	<ul style="list-style-type: none"> 326 x 233.5 (front to rear, non-touch) 326 x 234 	<ul style="list-style-type: none"> 12.83 x 9.19 (front to rear, non-touch) 12.83 x 9.21 	117.9077 (non-touch)	3.31 (Lowest weight configuration. Weight will vary by configuration)	1.5 (Lowest weight configuration. Weight will vary by configuration)

Brand	Model	Thinness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		Lbs.	Kg.
		to rear, touch)	(front to rear, touch)	(front to rear, touch)	(front to rear, touch)			
HP	Pavilion x360 - 13t Touch Laptop		0.89		12.89 x 8.8	113.432	3.77	
HP	Stream - 13-c010nr Laptop		0.81		13.12 x 9.02	118.3424	3.42	
HP	ENVY x2 – 13-j002dx		<ul style="list-style-type: none"> • 0.54 (tablet) • 0.76 (tablet and base) 		<ul style="list-style-type: none"> • 13.99 x 8.48" (tablet) • 14.07 x 8.57 (tablet and base) 	<ul style="list-style-type: none"> • 118.6352 (tablet) • 120.5799 (tablet and base) 	<ul style="list-style-type: none"> • 2.81 (tablet) • 4.05 (tablet and base) 	
Lenovo	LaVie Z		0.67		12.56 x 8.35	104.876	Starting at 1.87 lbs.	
Lenovo	U31-70		0.76		12.72 x 9.06	115.2432	3.31	
Lenovo	Yoga™ 3 Pro		0.5		13 x 9	117	2.62	
Samsung	Series 9 Premium Ultrabook NP900X3D-A03US		0.51		12.3 x 8.6	105.78	2.49	
Samsung	ATIV Book 9 Plus NP940X3G-K04US		0.54		12.58 x 8.78	110.4524	3.06	
Samsung	ATIV Book 9 Plus NP940X3K-K02US		0.54		12.58 x 8.78	110.4524	3.06	
Samsung	ATIV Book 9 NP900X3G-S01US		0.52		12.35 x 8.6	106.21	2.49	
Samsung	ATIV Book 9 NP900X3K-K01US		0.53		12.35 x 8.60	106.21	2.36	
Toshiba	Portege® R30-ASMBN22 Laptop		0.71–1.04		12.44 x 8.94	111.2136	<ul style="list-style-type: none"> • 3.37 	

Brand	Model	Thickness		Dimensions		Total area (sq. inches)	Weight	
		mm	inches	mm	inches		Lbs.	Kg.
							<ul style="list-style-type: none"> No weight given for 9-cell 	
Toshiba	KIRAbok™ 13 i7S1X Touch Ultrabook		0.70		12.44 × 8.15	101.386	<ul style="list-style-type: none"> 2.91 Described as starting point depending on configuration, but no other battery options listed 	
Toshiba	Portege Z30-BST3NX3 Ultrabook	13.9-17.9	0.55-0.70	316 x 227	12.44 x 8.94	111.2136	3.0 (starting point depending on configuration)	1.35

Figure 1: Dimension information we gathered for the notebooks. All links and data current as of 09/09/15.

Figure 2 details the available screen information for the systems we researched. According to vendor-provided data, the Dell XPS 13 9350 has a display with up to 4.4 times as many pixels as the MacBook Air (13-inch).

Brand	Model	Screen resolution		Pixels
		Horizontal	Vertical	
Dell	XPS 13 9350	3,200	1,800	5,760,000
Acer	Aspire S7 (S7-392-7451)	1,920	1,080	2,073,600
Acer	Aspire R 13 (R7-371T-57SN)	1,920	1,080	2,073,600
Acer	Aspire V (V3-371-596F)	1,366	768	1,049,088
Apple	MacBook Air (13-inch)	1,440	900	1,296,000
Apple	MacBook Pro (13-inch with Retina Display)	2,560	1,600	4,096,000
ASUS	Zenbook UX301LA	2,560	1,440	3,686,400
ASUS	Zenbook UX305FA	3,200	1,800	5,760,000

Brand	Model	Screen resolution		Pixels
		Horizontal	Vertical	
ASUS	Zenbook UX303LN	3,200	1,800	5,760,000
ASUS	Zenbook UX303LA	1,920	1,080	2,073,600
Fujitsu	LIFEBOOK E734	1,366	768	1,049,088
Fujitsu	LIFEBOOK T935	2,560	1,440	3,686,400
Fujitsu	LIFEBOOK T904	2,560	1,440	3,686,400
HP	ProBook 430 G2 Notebook PC	1,366	768	1,049,088
HP	Pavilion x360 - 13t Touch Laptop	1,366	768	1,049,088
HP	Stream - 13-c010nr Laptop	1,366	768	1,049,088
HP	ENVY x2 – 13-j002dx	1,920	1,080	2,073,600
Lenovo	LaVie Z	2,560	1,440	3,686,400
Lenovo	U31-70	1,920	1,080	2,073,600
Lenovo	Yoga 3 Pro	3,200	1,800	5,760,000
Samsung	Series 9 Premium Ultrabook NP900X3D-A03US	1,600	900	1,440,000
Samsung	ATIV Book 9 Plus NP940X3G-K04US	3,200	1,800	5,760,000
Samsung	ATIV Book 9 Plus NP940X3K-K02US	3,200	1,800	5,760,000
Samsung	ATIV Book 9 NP900X3G-S01US	1,920	1,080	2,073,600
Samsung	ATIV Book 9 NP900X3K-K01US	3,200	1,800	5,760,000
Toshiba	Portege R30-ASMBN22 Laptop	1,366	768	1,049,088
Toshiba	KIRAbok 13 i7S1X Touch Ultrabook	2,560	1,440	3,686,400

Brand	Model	Screen resolution		Pixels
		Horizontal	Vertical	
Toshiba	Portege Z30-BST3NX3 Ultrabook	1,366	768	1,049,088

Figure 2: Screen information we gathered about the notebooks. All links and data current as of 09/09/15.

Figure 3 details the available battery information for the systems we researched.

Brand	Model	Battery info
Dell	XPS 13 9350	<ul style="list-style-type: none"> • Up to 18 hours
Acer	Aspire S7 (S7-392-7451)	<ul style="list-style-type: none"> • 10 hours • 4-cell Li-Polymer • mAh: 6,280 • Maximum Power Supply Wattage: 45 W
Acer	Aspire R 13 (R7-371T-57SN)	<ul style="list-style-type: none"> • 4-cell Lithium Ion (Li-Ion) • 3220 mAh, 8 Hour
Acer	Aspire V (V3-371-596F)	<ul style="list-style-type: none"> • 4-cell Lithium Ion (Li-Ion) • 3220 mAh, 6.5 Hour
Apple	MacBook Air (13-inch)	<ul style="list-style-type: none"> • Up to 12 hours wireless Web time • Up to 12 hours iTunes Movie Playback • Up to 30 days Standby time • Built-in 54Wh Li-Po battery
Apple	MacBook Pro (13-inch with Retina Display)	<ul style="list-style-type: none"> • Up to 10 hours wireless Web time • Up to 12 hours iTunes Movie Playback • Up to 30 days Standby time • Built-in 74.9Wh Li-Po battery
ASUS	Zenbook UX301LA	<ul style="list-style-type: none"> • 6-cell / Polymer • 50.6Wh
ASUS	Zenbook UX305FA	<ul style="list-style-type: none"> • 44 Whrs Polymer Battery • 10 hours daily working • 8 hours video playing

Brand	Model	Battery info
ASUS	Zenbook UX303LN	<ul style="list-style-type: none"> • 3Cells 50 Whrs Polymer Battery
ASUS	Zenbook UX303LA	<ul style="list-style-type: none"> • 3Cells Polymer Battery
Fujitsu	LIFEBOOK E734	<ul style="list-style-type: none"> • Up to 25h
Fujitsu	LIFEBOOK T935	<ul style="list-style-type: none"> • Up to 11h
Fujitsu	LIFEBOOK T904	<ul style="list-style-type: none"> • Up to 8.5h
HP	ProBook 430 G2 Notebook PC	<ul style="list-style-type: none"> • 4-cell, 44 WHr Li-ion • 40 WHr Long Life Li-ion
HP	Pavilion x360 - 13t Touch Laptop	<ul style="list-style-type: none"> • 3-cell • 48Whr 4.15Ah Lithium-ion polymer • Up to 10 hours and 45 minutes
HP	Stream - 13-c010nr Laptop	<ul style="list-style-type: none"> • 3-cell • 36 WHr Lithium-ion • Up to 7 hours and 45 minutes
HP	ENVY x2 – 13-j002dx	<ul style="list-style-type: none"> • 2-cell 33WHr Lithium-ion Battery
Lenovo	LaVie Z	<ul style="list-style-type: none"> • Up to 7 hours MM12 • Up to 9 hours Video Playback
Lenovo	U31-70	<ul style="list-style-type: none"> • Up to 4 hours with 35 WHr battery
Lenovo	Yoga 3 Pro	<ul style="list-style-type: none"> • Up to 7.2 hours • 4-cell 44.8 WHr Li-Polymer
Samsung	Series 9 Premium Ultrabook NP900X3D-A03US	<ul style="list-style-type: none"> • Up to 9 hours • 4-cell / Li-Po • 44 WHr
Samsung	ATIV Book 9 Plus NP940X3G-K04US	<ul style="list-style-type: none"> • Up to 7 hours (MobileMark 2012) • 4-cell / Li-Po • mAh: 7300 • 55.5Wh
Samsung	ATIV Book 9 Plus NP940X3K-K02US	<ul style="list-style-type: none"> • Up to 12.5 hours (MobileMark 2012) • 4-cell / Li-Po • 40 W • mAh: 7300 • 55Wh

Brand	Model	Battery info
Samsung	ATIV Book 9 NP900X3G-S01US	<ul style="list-style-type: none"> • Up to 10 hours • 4 Cell / Li-Po • mAh: 5,880 • 44Wh
Samsung	ATIV Book 9 NP900X3K-K01US	<ul style="list-style-type: none"> • Up to 10 hours (Mobile Mark 2007) • 4 Cell / Li-Po • mAh: 5,880 • 44Wh
Toshiba	Portege R30-ASMBN22 Laptop	<ul style="list-style-type: none"> • 6-cell / Li-Ion • 66Wh • Up to 8 hours, 30 minutes (MobileMark Productivity 2012, Core i5-4200M, Windows 8.1, 6-cell battery) • Up to 9 hours, 10 minutes (MobileMark Productivity 2012, Core i7-4700MQ, Windows 8.1, 6-cell battery) • (9-cell/93Wh Li-Ion battery pack optional)
Toshiba	KIRAbok 13 i7S1X Touch Ultrabook	<ul style="list-style-type: none"> • 4-cell / Li-Po battery pack • 52Wh
Toshiba	Portege Z30-BST3NX3 Ultrabook	<ul style="list-style-type: none"> • Up to 15 hours and 5 minutes • 4 cell/52 Wh Lithium Ion battery pack (not user replaceable)

Figure 3: Battery information we gathered about the notebooks. All links and data current as of 09/09/15.

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