

COMPARISON OF 15-INCH-CLASS LAPTOPS

We compared the Dell Inspiron 15 7000 (7590) laptop to others in its class from vendors including Acer®, AORUS, Apple®, ASUS®, Chuwi, Fujitsu®, HP, Huawei, Lenovo®, LG, Microsoft, Panasonic, Razer™, Sager, Samsung®, Sony, and Toshiba. The figures below compare the systems using publicly available data. We gathered this data at the links provided on 11/15/2019, and report only what each vendor disclosed on their website. Vendors that don't appear in the table below did not offer a performance-class 15.6-inch laptop to compare. Click a system's name to visit its page on the vendor's website.

According to vendor-provided data, the Dell Inspiron 15 7590 is the lightest performance-class 15.6-inch laptop. We define performance class as having an H-level processor (or better) and a discrete graphics card.

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Dell	Inspiron 15 7590 laptop	Intel Core i5-9300H Intel Core i7-9750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1650	3.52	1.59
Acer	Aspire 3 (A315-21-927W)	AMD A9-9420e	AMD Radeon R5 Graphics	4.63	2.1
Acer	Aspire 3 (A315-21-63F1)	AMD A6-9220e	AMD Radeon R4 Graphics	4.63	2.1
Acer	Aspire 3 (A315-21-90LC)	AMD A9-9420e	AMD Radeon R5 Graphics	4.63	2.1
Acer	Aspire 3 (A315-21-2476)	AMD E2-9000e	AMD Radeon R2 Graphics	4.63	2.1
Acer	Aspire 3 (A315-21-95KF)	AMD A9-9420	AMD Radeon R5 Graphics	4.63	2.1
Acer	Aspire 3 (A315-31-C514)	Intel Celeron N3350	Intel HD Graphics 500	4.63	2.1



Brand	Model	Processor	Discrete graphics card	Weight	
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Acer	Aspire 3 (A315-31-C8WK)	Intel Celeron N3350	Intel HD Graphics 500	4.63	2.1
Acer	Aspire 3 (A315-51-C7CF)	Intel Celeron N3350	Intel HD Graphics 500	4.63	2.1
Acer	Aspire 3 (A315-51-31RD)	Intel Core i3-7100U	Intel HD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-41-R8UU)	AMD Ryzen 5 2500U	AMD Radeon Vega 8	5.1	2.3
Acer	Aspire 3 (A315-53-30BS)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-54-530D)	Intel Core i5-10210U	Intel UHD Graphics	4.19	1.9
Acer	Aspire 3 (A315-53-55Y1)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-53-52CF)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-53-57WF)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-41-R3BW)	AMD Ryzen 5 2500U	AMD Radeon Vega 8	5.07	2.29
Acer	Aspire 3 (A315-53-54R3)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-53-35ZY)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-53-32TF)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1

Brand	Model	Processor	Discrete graphics card	Weight	
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Acer	Aspire 3 (A315-53-54XX)	Intel Core i5-7200U	Intel HD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-53-56ER)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 3 (A315-32-C0S5)	Intel Celeron N4100	Intel UHD Graphics 600	4.63	2.1
Acer	Aspire 3 (A315-32-C78M)	Intel Celeron N4100	Intel UHD Graphics 600	4.63	2.1
Acer	Aspire 3 (A315-32-C3KK)	Intel Celeron N4100	Intel UHD Graphics 600	4.63	2.1
Acer	Aspire 3 (A315-41-R3BW)	AMD Ryzen 5 2500U	AMD Radeon Vega 8	5.07	2.29
Acer	Aspire 3 (A315-41-R5TS)	AMD Ryzen 7 2700U	AMD Radeon Vega 10	5.07	2.29
Acer	Aspire 3 (A315-41-R14K)	AMD Ryzen 7 2700U	AMD Radeon Vega 10	5.07	2.29
Acer	Aspire 3 (A315-41-R3RF)	AMD Ryzen 3 2200U	AMD Radeon Vega 3	5.07	2.29
Acer	Aspire 3 (A315-21-90LC)	AMD A9-9420e	AMD Radeon R5 Graphics	4.63	2.1
Acer	Aspire 3 (A315-53-30N0)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 5 (A515-54G-70TZ)	Intel Core i7-8565U	NVIDIA GeForce MX250	4.19	1.9
Acer	Aspire 5 (A515-54-30BQ)	Intel Core i3-8145U	Intel UHD Graphics 620	3.97	1.8

Brand	Model	Processor	Discrete graphics card	Weight	
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Acer	Aspire 5 (A515-51G-84SN)	Intel Core i7-8550U	NVIDIA GeForce MX150	4.85	2.19
Acer	Aspire 5 (A515-51-523X)	Intel Core i5-8250U	Intel UHD Graphics 620	4.85	2.19
Acer	Aspire 5 (A515-51-5144)	Intel Core i5-8250U	Intel UHD Graphics 620	4.85	2.19
Acer	Aspire 5 (A515-54-50CY)	Intel Core i5-8265U	Intel UHD Graphics 620	3.97	1.8
Acer	Aspire 5 (A515-54-51DJ)	Intel Core i5-8265U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-79J5)	Intel Core i7-8565U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-75VH)	Intel Core i7-8565U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-56ST)	Intel Core i5-8265U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-597W)	Intel Core i5-8265U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-55ZD)	Intel Core i5-8265U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-54-5649)	Intel Core i5-10210U	Intel UHD Graphics	4.19	1.9
Acer	Aspire 5 (A515-54G-56VE)	Intel Core i5-10210U	NVIDIA GeForce MX250	4.19	1.9
Acer	Aspire 5 (A515-54G-53H6)	Intel Core i5-10210U	NVIDIA GeForce MX250	4.19	1.9

Brand	Model	Processor	Discrete graphics card	Weight	
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Acer	Aspire 5 (A515-54G-54QQ)	Intel Core i5-8265U	NVIDIA GeForce MX250	4.19	1.9
Acer	Aspire 5 (A515-54G-5928)	Intel Core i5-8265U	NVIDIA GeForce MX250	3.97	1.8
Acer	Aspire 5 (A515-54G-73WC)	Intel Core i7-8565U	NVIDIA GeForce MX250	4.19	1.9
Acer	Aspire 5 (A515-54G-797L)	Intel Core i7-10510U	NVIDIA GeForce MX250	4.19	1.9
Acer	Aspire 5 (A515-51-84PS)	Intel Core i7-8550U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 5 (A515-51-526S)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	Aspire 5 (A515-51-50RR)	Intel Core i5-7200U	Intel HD Graphics 620	4.85	2.19
Acer	Aspire 5 (A515-51-51LZ)	Intel Core i5-7200U	Intel HD Graphics 620	4.85	2.19
Acer	Aspire 5 (A515-51G-84SN)	Intel Core i7-8550U	NVIDIA GeForce MX150	4.85	2.19
Acer	Aspire 5 (A515-43-R19L)	AMD Ryzen 3 3200U	AMD Radeon Vega 3	4.19	1.9
Acer	Aspire 5 (A515-43-R4Z2)	AMD Ryzen 5 3500U	AMD Radeon Vega 8	4.19	1.9
Acer	Aspire 5 (A515-52-368R)	Intel Core i3-8145U	Intel UHD Graphics 620	4.19	1.9
Acer	Aspire 5 (A515-52-760G)	Intel Core i7-8565U	Intel UHD Graphics 620	4.19	1.9

Brand	Model	Processor	Discrete graphics card	Weight	
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Acer	Aspire 7 (A715-74G-73M5)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050	5.18	2.35
Acer	Aspire 7 (A715-73G-726G)	Intel Core i7-8705G	AMD Radeon RX Vega M GL	3.31	1.5
Acer	Aspire 7 (A715-74G-71WS)	Intel Core i7-9750H	NVIDIA GeForce GTX 1050	5.18	2.35
Acer	Aspire 7 (A715-74G-73QX)	Intel Core i7-9750H	NVIDIA GeForce GTX 1650	5.18	2.35
Acer	Aspire 7 (A715-72G-71CT)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	5.29	2.39
Acer	Aspire 7 (A715-72G-79BH)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050	5.29	2.39
Acer	Aspire 7 (A715-72G-79R9)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	5.29	2.39
Acer	Aspire 7 (A715-73G-75BW)	Intel Core i7-8705G	AMD Radeon RX Vega M GL	3.31	1.5
Acer	Aspire 7 (A715-72G-739V)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	5.29	2.39
Acer	Aspire E (E5-575G-57KJ)	Intel Core i5-7200U	NVIDIA GeForce 940MX	4.92	2.23
Acer	Nitro 5 (AN515-54-54W2)	Intel Core i5-9300H	NVIDIA GTX 1050	5.51	2.49
Acer	Nitro 5 (AN515-54-51M5)	Intel Core i5-9300H	NVIDIA GTX 1650	5.51	2.49
Acer	Nitro 5 (AN515-53-70AQ)	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	5.95	2.69

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Acer	Nitro 5 (AN517-51-56YW)	Intel Core i5-9300H	NVIDIA GeForce GTX 1650	6.61	2.99
Acer	Nitro 5 (AN515-43-R0YM)	AMD Ryzen 5 3550H	AMD Radeon RX 560X	5.07	2.29
Acer	Nitro 5 (AN515-43-R1QT)	AMD Ryzen 7 3750H	AMD Radeon RX 560X	5.07	2.29
Acer	Predator Helios 300 (PH315-51-71FS)	Intel Core i7-8750H	NVIDIA GeForce GTX 1060	5.95	2.69
Acer	Predator Helios 300 (PH315-52-72RG)	Intel Core i7-9750H	NVIDIA GeForce GTX 1660Ti	5.51	2.49
Acer	Predator Helios 300 (PH315-52-72EV)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	5.51	2.49
Acer	Predator Helios 300 (PH315-52-71RT)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	5.51	2.49
Acer	Predator Helios 300 (PH315-52-78VL)	Intel Core i7-9750H	NVIDIA GeForce GTX 1660Ti	5.51	2.49
Acer	Predator Helios 300 Special Edition (PH315-51-757A)	Intel Core i7-8750H	NVIDIA GeForce GTX 1060	5.95	2.69
Acer	Predator Triton 500 (PT515-51-75L8)	Intel Core i7-8750H	NVIDIA GeForce RTX 2080	4.41	2
Acer	Predator Triton 500 (PT515-51-71VV)	Intel Core i7-8750H	NVIDIA GeForce RTX 2060	4.41	2
Acer	Predator Triton 500 (PT515-51-765U)	Intel Core i7-8750H	NVIDIA GeForce RTX 2080	4.41	2

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Acer	Predator Triton 500 (PT515-51-7848)	Intel Core i7-9750H	NVIDIA GeForce RTX 2080	4.41	2
Acer	Predator Triton 500 (PT515-51-73EG)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	4.41	2
Acer	Predator Triton 500 (PT515-51-75BH)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	4.41	2
Acer	Predator Triton 500 (PT515-51-73Z5)	Intel Core i7-9750H	NVIDIA GeForce RTX 2080	4.41	2
Acer	Predator Triton 500 (PT515-51-7746)	Intel i7-9750H	NVIDIA GeForce RTX 2070	4.41	2
Acer	Predator Triton 500 (PT515-51-75Q2)	Intel Core i7-9750H	NVIDIA GeForce RTX 2080	4.41	2
Acer	Predator Triton 700 (PT715-51-761M)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060	5.29	2.39
Acer	Predator Triton 700 (PT715-51-71W9)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1080	5.29	2.39
Acer	Predator Triton 700 (PT715-51-732Q)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1080	5.29	2.39
Acer	Swift 3 (SF315-52G-55MH)	Intel i5-8250U	NVIDIA GeForce MX150	3.97	1.8
Acer	Swift 3 (SF315-52-51NV)	Intel i5-8250U	Intel UHD Graphics 620	3.75	1.7
Acer	Swift 3 (SF315-52-88A4)	Intel Core i7-8550U	Intel UHD Graphics 620	3.75	1.7
Acer	Swift 3 (SF315-41G-R6MP)	AMD Ryzen 7 2700U	AMD Radeon RX 540	4.85	2.19

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Acer	Swift 3 (SF315-52G-55MH)	Intel Core i5-8250U	NVIDIA GeForce MX150	3.97	1.8
Acer	Swift 3 (SF315-52-52YN)	Intel i5-8250U	Intel UHD Graphics 620	3.75	1.7
Acer	Swift 5 (SF515-51T-507P)	Intel Core i5-8265U	Intel UHD Graphics 620	2.2	0.99
Acer	Swift 5 (SF515-51T-73TY)	Intel Core i7-8565U	Intel UHD Graphics 620	2.2	0.99
Acer	Swift 5 (SF515-51T-53AY)	Intel Core i5-8265U	Intel UHD Graphics 620	2.2	0.99
Acer	TravelMate P2 (TMP215-51-51RB)	Intel Core i5-8250U	Intel UHD Graphics 620	4.03	1.83
Acer	TravelMate P2 (TMP215-51-56BF)	Intel Core i5-8250U	Intel UHD Graphics 620	4.03	1.83
Acer	TravelMate P2 (TMP2510-G2-M-54EA)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	TravelMate P2 (TMP2510-G2-M-320E)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1
Acer	TravelMate P2 (TMP2510-G2-M-891A)	Intel Core i7-8550U	Intel UHD Graphics 620	4.63	2.1
Acer	TravelMate P2 (TMP2510-G2-M-56AT)	Intel Core i5-8250U	Intel UHD Graphics 620	4.63	2.1
Acer	TravelMate P2 (TMP2510-G2-M-317P)	Intel Core i3-8130U	Intel UHD Graphics 620	4.63	2.1
Acer	TravelMate P6 (TMP658-MG-749P)	Intel Core i7-6500U	NVIDIA GeForce 940M	4.6	2.08

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Acer	ConceptD 7 (CN715-71-70LR)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	4.63	2.1
Acer	ConceptD 7 (CN715-71-73A9)	Intel Core i7-9750H	NVIDIA GeForce RTX 2080	4.63	2.1
Acer	ConceptD 7 (CN715-71-77QK)	Intel Core i7-9750H	NVIDIA GeForce RTX 2080	4.63	2.1
Acer	ConceptD 7 (CN715-71-71TE)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	4.63	2.1
Acer	ConceptD 5 (CN515-51-72FX)	Intel Core i7-8705G	AMD Radeon RX Vega M GL	3.31	1.5
Acer	ConceptD 3 (CN315-71P-78QP)	Intel Core i7-9750H	NVIDIA Quadro T1000	5.18	2.35
Aorus	15-W9	Intel Core i7-8750H	NVIDIA GeForce RTX 2060	5.29	2.4
Aorus	15-X9	Intel Core i7-8750H	NVIDIA GeForce RTX 2070	5.29	2.4
Aorus	15-XA	Intel Core i7-9750H	NVIDIA GeForce RTX 2070	5.29	2.4
Aorus	15-WA	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	5.29	2.4
Aorus	15-SA	Intel Core i7-9750H	NVIDIA GeForce GTX 1660Ti	5.29	2.4
Aorus	5-GA	Intel Core i7-9750H	NVIDIA GTX 1050	4.73	2.15
Aorus	5-NA	Intel Core i7-9750H	NVIDIA GTX 1650	4.73	2.15
Aorus	X5 v8	Intel i7-8850H	NVIDIA GeForce GTX 1070	5.51	2.5
Apple	MacBook Pro with Touch Bar	Intel Core i7-9750H Intel Core i9-9880H Intel Core i9-9880HK	AMD Radeon Pro 555X AMD Radeon Pro 560X AMD Radeon Pro Vega 16 AMD Radeon Pro Vega 20	4.02	1.83
ASUS	FX753VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050Ti	6.17	2.8

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ASUS	FX570	Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce GTX 1050	4.1	1.9
ASUS	TUF Gaming FX505DV	AMD Ryzen 7 3750H AMD Ryzen 5 3550H	NVIDIA GeForce RTX 2060	4.85 - 5.07	2.2 - 2.3
ASUS	TUF Gaming FX505DY	AMD Ryzen 5 3550H	AMD Radeon RX 560X	4.85	2.2
ASUS	TUF Gaming FX505DD/DT/DU	AMD Ryzen 7 3750H AMD Ryzen 5 3550H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1650 NVIDIA GeForce GTX 1660Ti	4.85 - 5.07	2.2 - 2.3
ASUS	TUF Gaming FX505GT	Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce GTX 1650	4.85	2.2
ASUS	TUF Gaming FX504	Intel Core i5-8300H Intel Core i7-8750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti NVIDIA GeForce GTX 1060	5.07	2.3
ASUS	TUF Gaming FX505	Intel Core i5-8300H Intel Core i7-8750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti NVIDIA GeForce GTX 1060	4.85	2.2
ASUS	ROG GU501	Intel Core i7-8750H	NVIDIA GeForce GTX 1060	5.4	2.45
ASUS	ROG GL553VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 2GB/4GB	5.51	2.49
ASUS	ROG GL552VX	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 950M	5.51	2.5
ASUS	ROG GL553VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050Ti 4GB	5.51	2.49
ASUS	ROG GL502VS	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 1070	5.2	2.36
ASUS	ROG GL502VM	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 1060	4.8	2.18

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ASUS	ROG Strix G	Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070 NVIDIA GeForce GTX 1660Ti NVIDIA GeForce GTX 1650	5.2	2.39
ASUS	ROG GL503	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050	5.1	2.31
ASUS	ROG Strix Hero Edition	Intel Core i5-8300H Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	5.73	2.6
ASUS	ROG Strix SCAR II (GL504GW) (GL504GV)	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2060	5.29	2.4
ASUS	ROG Strix Hero II	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce RTX 2060	5.29	2.4
ASUS	ROG Strix Hero III (G531GW) (G531GV) (G531GU)	Intel Core i9-9880H Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2060 NVIDIA GeForce GTX 1660 Ti	5.66	2.57
ASUS	ROG ZEPHYRUS (GX501)	Intel Core i7-7700HQ Intel Core i5-7300HQ Intel Core i7-8750HQ	NVIDIA GeForce GTX 1070 NVIDIA GeForce GTX 1080	4.85	2.2
ASUS	ROG Zephyrus S (GX502GW) (GX502GV)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070	4.4	2

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				Pounds	Kilograms
ASUS	ROG Zephyrus M (GM501GS) (GM501GM)	Intel Core i7-8750H	NVIDIA GeForce GTX 1070 NVIDIA GeForce GTX 1060	5.4	2.45
ASUS	ROG Zephyrus M (GU502GV) (GU502GU)	Intel Core i7-9750H	NVIDIA GeForce RTX 2060 NVIDIA GeForce GTX 1660 Ti	4.1	1.9
ASUS	ROG Zephyrus S (GX531GX) (GX531GW) (GX531GV)	Intel Core i7-8750H	NVIDIA GeForce RTX 2080 NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2060	4.62	2.1
ASUS	ROG Zephyrus G (GA502DU)	AMD Ryzen 7 3750H	NVIDIA GeForce GTX 1660 Ti	4.62	2.1
ASUS	ZenBook Pro Duo UX581GV	Intel Core i9-9980HK Intel Core i7-9750H	NVIDIA GeForce RTX 2060	5.51	2.5
ASUS	ZenBook UX510UW	Intel Core i7-6500U Intel Core i5-6200U	NVIDIA GeForce GTX 960M	4.4	2
ASUS	ZenBook UX510UX	Intel Core i7-6500U Intel Core i5-6200U	NVIDIA GeForce GTX 950M	4.4	2
ASUS	ZenBook UX530UX	Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce GTX 950	3.59	1.63
ASUS	ZenBook 15 UX533FD	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce GTX 1050 Max-Q	3.5 (anti-glare display) 3.7 (standard display)	1.59 (anti-glare display) 1.69 (standard display)

Brand	Model	Processor	Discrete graphics card	Weight	
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ASUS	ZenBook 15 UX533FN	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce GTX MX150	3.5 (anti-glare display) 3.7 (standard display)	1.59 (anti-glare display) 1.69 (standard display)
ASUS	ZenBook 15 UX534FT	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce GTX 1650 Max-Q	3.4 (anti-glare display) 3.6 (standard display)	1.55 (anti-glare display) 1.65 (standard display)
ASUS	ZenBook 15 UX534FTC	Intel Core i7-10510U Intel Core i5-10210U	NVIDIA GeForce GTX 1650 Max-Q	3.4 (anti-glare display) 3.6 (standard display)	1.55 (anti-glare display) 1.65 (standard display)
ASUS	ZenBook 15 UX534FAC	Intel Core i7-10510U Intel Core i5-10210U	Intel UHD Graphics	3.4 (anti-glare display) 3.6 (standard display)	1.55 (anti-glare display) 1.65 (standard display)
ASUS	ZenBook Pro 15 UX580GE	Intel Core i9-8950HK Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050 TI	4.14	1.88
ASUS	ZenBook Pro 15 UX550GE	Intel Core i7-8750H	NVIDIA GeForce GTX 1050 Ti	4.1	1.86

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	ZenBook Pro 15 UX550GD	Intel Core i9-8950HK Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050	4.1	1.86
ASUS	ZenBook Pro 15 UX580GD	Intel Core i9-8950HK	NVIDIA GeForce GTX 1050 Ti	4.14	1.88
ASUS	VivoBook Pro 15 N580GD	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050	4.38 (Non touch) 5.04 (Touch)	1.99 (Non touch) 2.29 (Touch)
ASUS	ZenBook Pro UX550VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050	3.97	1.8
ASUS	ZenBook Pro UX550VE	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti	3.97	1.8
ASUS	ASUSPRO P3540FA	Intel Core i7 8565UU Intel Core i5 8265U Intel Core i3 8145U	Intel HD Graphcis 620	3.75	1.7
ASUS	ASUSPRO P3540FB	Intel Core i7 8565UU Intel Core i5 8265U Intel Core i3 8145U	NVIDIA GeForce MX110	3.75	1.7
ASUS	ASUSPRO P2540FB	Intel Core i7 8565U Intel Core i5 8265U	NVIDIA GeForce MX110	4.4	2
ASUS	ASUSPRO P2540UA	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U	Intel HD Graphcis 620	4.78	2.17
ASUS	ASUSPRO P2540UB	Intel Core i7 8550U Intel Core i7 8250U	NVIDIA GeForce MX110	4.78	2.17
ASUS	ASUSPRO P2540NV	Intel Celeron N3350 Intel Celeron N3450 Intel Pentium N4200	NVIDIA GeForce 920MX	4.78	2.17

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	M570DD	AMD Ryzen 7 3700U AMD Ryzen 5 3500U AMD Ryzen 3 3200U	Radeon RX 540X	4.1	1.9
ASUS	Laptop E502NA	Intel Celeron N3350 Intel Celeron N3450 Intel Pentium N4200	Intel HD Graphics	3.64	1.65
ASUS	Laptop 15 M509BA	AMD A9-9425 AMD A6-9225 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	3.97	1.8
ASUS	Laptop 15 M509DJ	AMD Ryzen 7 3700U AMD Ryzen 5 3500U AMD Ryzen 3 3200U	NVIDIA GeForce MX250	3.97	1.8
ASUS	Laptop 15 M509DL	AMD Ryzen 7 3700U AMD Ryzen 5 3500U AMD Ryzen 3 3200U	NVIDIA GeForce MX250	3.97	1.8
ASUS	Laptop 15 M509DA	AMD Ryzen 7 3700U AMD Ryzen 5 3500U AMD Ryzen 3 3200U	AMD Radeon RX Vega 10 AMD Radeon Vega 8 AMD Radeon Vega 3	3.97	1.8
ASUS	Laptop X507MA	Intel Celeron N5000 Intel Celeron N4100 Intel Pentium N4000	Intel UHD Graphics	3.7	1.68
ASUS	Laptop X571GT	Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce GTX 1650	3.97	1.8
ASUS	Laptop X570ZD	AMD Ryzen 7 2700U AMD Ryzen 5 2500U	NVIDIA GeForce GTX 1050	4.1	1.9

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	Laptop X570UD	Intel Core i5 8250U Intel Core i7 8550U	NVIDIA GeForce GTX 1050	4.1	1.9
ASUS	Laptop X540BP	AMD A9-9425 AMD A6-9225 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	4.1	1.9
ASUS	Laptop X540MA	Intel Celeron N5000 Intel Celeron N4100 Intel Pentium N4000	Intel UHD Graphics	4.1	1.9
ASUS	Laptop X541SC	Intel Pentium N3710 Intel Celeron N3160 Intel Celeron N3060	NVIDIA GeForce 810M	4.4	2
ASUS	Laptop X541SA	Intel Pentium N3710 Intel Celeron N3160 Intel Celeron N3060	Intel HD Graphics	4.4	2
ASUS	Laptop X541UJ	Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-6006U	NVIDIA GeForce 920M	4.4	2
ASUS	Laptop X540NV	Intel Celeron N3450 Intel Celeron N3350 Intel Pentium N4200	NVIDIA GeForce 920MX	4.4	2
ASUS	Laptop X540MB	Intel Celeron N5000 Intel Celeron N4100 Intel Pentium N4000	NVIDIA GeForce MX110	4.1	1.9

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	Laptop X540UB	Intel Core i7-8550U Intel Core i5-8250U Intel Core i3-8130U Intel Pentium 4417U	NVIDIA GeForce MX110	4.1	1.9
ASUS	Laptop X540BA	AMD A9-9425 AMD A6-9225 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	4.1	1.9
ASUS	Laptop X556UJ	Intel Core i7 6500U Intel i5 6200U Intel Core i3-6100U	NVIDIA GeForce 920M	5.07	2.3
ASUS	Laptop X556UA	Intel Core i7 7500U Intel i5 7200U Intel Core i3-7100U	Intel HD Graphics 520	5.07	2.3
ASUS	Laptop X555YI	AMD A6-7310 AMD A4-7210 AMD E1-7010	AMD Radeon R4 Graphics AMD Radeon R3 Graphics AMD Radeon R2 Graphics	4.85	2.2
ASUS	Laptop X555DG	AMD A10-8700P AMD FX-8800P	AMD Radeon R7 Graphics AMD Radeon R6 Graphics	4.85	2.2
ASUS	Laptop X555BA	AMD A9-9410 AMD A6-9210 AMD E2-9010	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	4.85	2.2
ASUS	Laptop X555QA	AMD FX-9800P AMD A12-9700P AMD A10-9600P	AMD Radeon R7 Graphics AMD Radeon R5 Graphics	5.07	2.3

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	Laptop X543MB	Intel Celeron N5000 Intel Celeron N4100 Intel Pentium N4000	NVIDIA GeForce MX110	4.1	1.9
ASUS	Laptop X543BP	AMD A9-9425 AMD A6-9225 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	4.1	1.9
ASUS	Laptop X543BA	AMD A9-9425 AMD A6-9225 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	4.1	1.9
ASUS	Laptop X543UA	Intel Core i7-8550U Intel Core i5-8250U Intel Core i3-8130U Intel Pentium 4417U	Intel UHD Graphics 620	4.1	1.9
ASUS	Laptop X543UB	Intel Core i7-8550U Intel Core i5-8250U Intel Core i3-8130U Intel Pentium 4417U	NVIDIA GeForce MX110	4.1	1.9
ASUS	Laptop 15 X545FA	Intel Core i7-10510U Intel Core i5-10210U	Intel UHD Graphics	4.1	1.9
ASUS	Laptop 15 X545FB	Intel Core i7-10510U Intel Core i5-10210U	NVIDIA GeForce MX110	4.1	1.9
ASUS	Laptop 15 X545FJ	Intel Core i7-10510U Intel Core i5-10210U	NVIDIA GeForce MX130	4.1	1.9
ASUS	X560UD	Intel Core i5 8250U Intel Core i7 8550U	NVIDIA GeForce GTX 1050	4.34	1.97
ASUS	Laptop X507LA	Intel Core i3 5005U	Intel HD Graphics 4400	3.7	1.68

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	Laptop X507UA	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	Intel HD Graphcis 520 Intel HD Graphics 620 Intel UHD Graphics 620	3.7	1.68
ASUS	Laptop 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	3.7	1.68
ASUS	Laptop 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 MX130	3.7	1.68
ASUS	Laptop 15 X509UJ	Intel Core i3-7020U Intel Pentium 4417U	NVIDIA GeForce MX230	3.97	1.8
ASUS	Laptop 15 X509UB	Intel Core i3-7020U Intel Pentium 4417U	NVIDIA GeForce MX110	3.97	1.8
ASUS	Laptop 15 X509FB	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	NVIDIA GeForce MX110	3.97	1.8

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	Laptop 15 X509FL	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	NVIDIA GeForce MX250	3.97	1.8
ASUS	Laptop 15 X509FJ	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	NVIDIA GeForce MX230	3.97	1.8
ASUS	Laptop 15 X509FA	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	Intel UHD Graphics 620	4.2	1.91
ASUS	F542UA	Intel Core i7 8550U Intel Core i7 7500U Intel Core i5 8250U Intel Core i3 8130U	Intel UHD Graphics 620	5.07	2.3
ASUS	FX502VM	Intel Core i7 6700HQ Intel Core i5-6300HQ	Intel HD Graphics 530	4.85	2.2
ASUS	FX502VD	Intel Core i7 7700HQ Intel Core i5 7300HQ	NVIDIA GeForce GTX 1050	4.85	2.2
ASUS	FX503	Intel Core i7 7700HQ Intel Core i5 7300HQ	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1060	5.51	2.5
ASUS	TUF Gaming FX505	Intel Core i78750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050TI NVIDIA GeForce GTX 1060	4.85	2.2
ASUS	VivoBook E502NA	Intel Celeron N3350 Intel Celeron N3450 Intel Pentium N4200	Intel HD Graphics	3.64	1.65
ASUS	VivoBook K571GT	Intel Core i7-9750H	NVIDIA GeForce GTX 1650	4.72	2.14
ASUS	VivoBook K570UD	Intel Core i7 8550U Intel Core i5 8250U	NVIDIA GeForce GTX 1050	4.1	1.9

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	R540NA	Intel Celeron N3350 Intel Celeron N3450 Intel Pentium N4200	Intel HD Graphics	4.4	2
ASUS	VivoBook X541NA	Intel Celeron N3350 Intel Celeron N3450 Intel Pentium N4200	Intel HD Graphics	4.4	2
ASUS	VivoBook 15 X505BP	AMD A9-9420 AMD A6-9220 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	3.7	1.68
ASUS	VivoBook 15 X505BA	AMD A9-9420 AMD A6-9220 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	3.64	1.65
ASUS	VivoBook 15 X505ZA	AMD Ryzen 7 2700U AMD Ryzen 5 2500U AMD Ryzen 3 2300U AMD Ryzen 3 2200U	AMD Radeon RX Vega 10 AMD Radeon Vega 8 AMD Radeon Vega 6 AMD Radeon Vega 3	3.52	1.6
ASUS	VivoBook 15 X542UA	Intel Core i7-8550U Intel Core i5-8250U Intel Core i7-7500U Intel Core i3-8130U	NVIDIA GeForce 940MX	5.07	2.3
ASUS	VivoBook 15 X542UR	Intel Core i5-7200U Intel Core i7-7500U Intel Core i3-7100U	NVIDIA GeForce 930MX	4.62	2.1
ASUS	VivoBook 15 X542UF	Intel Core i5-7200U Intel Core i7-7500U Intel Core i3-7100U	NVIDIA GeForce MX130	5.07	2.3
ASUS	VivoBook 15 X542UN	Intel Core i5-7200U Intel Core i7-7500U	NVIDIA GeForce MX150	5.07	2.3

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
		Intel Core i7-8550U Intel Core i5-8250U			
ASUS	VivoBook 15 X542BP	AMD A9-9420 AMD A6-9220 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	5.07	2.3
ASUS	VivoBook 15 X542BA	AMD A9-9420 AMD A6-9220 AMD E2-9000	AMD Radeon R5 Graphics AMD Radeon R4 Graphics AMD Radeon R2 Graphics	5.07	2.3
ASUS	VivoBook 15 X542UQ	Intel Core i5-7200U Intel Core i7-7500U Intel Core i3-7100U	NVIDIA GeForce 940MX	5.07	2.3
ASUS	VivoBook 15 X540UA	Intel Core i5-8250U Intel Core i5-7200U	Intel UHD Graphics	4.4	1.99
ASUS	VivoBook 15 X540NA	Intel Pentium N4200 Intel Celeron N3350 Intel Celeron N3450	Intel HD Graphics	4.4	1.99
ASUS	VivoBook 15 X510QA	AMD FX-9800P AMD A12-9720P	AMD Radeon R7 Graphics	3.75	1.7
ASUS	VivoBook 15 X510QR	AMD FX-9800P AMD A12-9720P	AMD Radeon 535	3.75	1.7
ASUS	VivoBook 15 X510UA	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce MX150	3.75	1.7

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	VivoBook 15 X510UQ	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U	NVIDIA GeForce 940MX	3.75	1.7
ASUS	VivoBook 15 F512FA	Intel Core i3-8145U	Intel HD Graphics	3.5	1.59
ASUS	VivoBook S15 S510UF	Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce MX130	3.74	1.7
ASUS	VivoBook S15 S510UA	Intel Core i7 7500U Intel Core i5 7200U Intel Core i3 7100U Intel Core i7-8550U Intel Core i5-8250U	Intel HD Graphics	3.74	1.7
ASUS	VivoBook S15 S510UQ	Intel Core i7-8550U Intel Core i7-8250U Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce 940MX	3.74	1.7
ASUS	VivoBook S15 S510UN	Intel Core i7-8550U Intel Core i7-8250U Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce MX150	3.3	1.49
ASUS	VivoBook X510UN	Intel Core i7-8550U Intel Core i7-8250U Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce MX150	3.74	1.7
ASUS	VivoBook Pro 15 N580VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050	4.39 Non Touch 5.05 Touch	1.99 Non Touch 2.29 Touch

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	VivoBook Pro 15 N552VW	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 960M	5.58	2.53
ASUS	VivoBook Pro 15 N552VX	Intel Core i7-6700HQ Intel Core i5-6300HQ	NVIDIA GeForce GTX 950M	5.58	2.53
ASUS	VivoBook S15 S530UN	Intel Core i7-8550U Intel Core i7-8250U Intel Core i3-8130U	NVIDIA GeForce MX150	3.97	1.8
ASUS	VivoBook S15 S530UF	Intel Core i7-8550U Intel Core i7-8250U Intel Core i3-8130U	NVIDIA GeForce MX130	3.97	1.8
ASUS	VivoBook S15 S530FA	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	Intel UHD Graphics 620	3.97	1.8
ASUS	VivoBook S15 S530FN	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	NVIDIA GeForce MX150	3.97	1.8
ASUS	VivoBook 15 X512UB	Intel Core i5-8250U Intel Core i3-8130U Intel Core i3-7020U Intel Pentium 4417U	NVIDIA GeForce MX110	3.86	1.75
ASUS	VivoBook 15 X512FJ	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce MX230	4.29	1.95
ASUS	VivoBook 15 X512FA	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	Intel HD Graphics	3.86	1.75

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	VivoBook 15 X512FB	Intel Core i7-8565U Intel Core i5-8265U Intel Core i3-8145U	NVIDIA GeForce MX110	3.86	1.75
ASUS	VivoBook 15 X512DK	AMD Ryzen 5 3500U AMD Ryzen 3 3200U	Radeon Vega 8 Radeon Vega 3	3.74	1.7
ASUS	VivoBook 15 X512DA	AMD Ryzen 7 3700U AMD Ryzen 5 3500U AMD Ryzen 3 3200U AMD Athlon II 300U	Radeon RX Vega 10 Radeon Vega 8 Radeon Vega 3	3.74	1.7
ASUS	VivoBook 15 X510UR	Intel Core i7-8550U Intel Core i7-8250U Intel Core i7-7500U Intel Core i5-7200U Intel Core i3-7100U	NVIDIA GeForce 930MX	3.74	1.7
ASUS	VivoBook 15 X510UF	Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce MX130	3.74	1.7
ASUS	VivoBook 15 X512UF	Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce MX130	3.86	1.75
ASUS	VivoBook 15 X512UA	Intel Core i5-8250U Intel Core i3-8130U Intel Core i3-7020U Intel Pentium 4417U	Intel HD Graphics	3.74	1.7
ASUS	VivoBook 15 X512FL	Intel Core i7-8550U Intel Core i5-8250U	NVIDIA GeForce MX130	4.29	1.95
ASUS	VivoBook S15 S531FA	Intel Core i7-10510U Intel Core i5-10210U Intel Core i7-8565U Intel Core i5-8265U	Intel UHD Graphics 620	3.97	1.8

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
ASUS	VivoBook S15 S531FL	Intel Core i7-10510U Intel Core i5-10210U Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce MX250	3.97	1.8
ASUS	VivoBook S15 S532FL	Intel Core i7-8565U Intel Core i5-8265U	NVIDIA GeForce MX250	3.97	1.8
ASUS	VivoBook S15 S532FA	Intel Core i7-8565U Intel Core i5-8265U	Intel UHD 630 Graphics	3.97	1.8
ASUS	VivoBook S15 S530UA	Intel Core i5-8250U Intel Core i3-8130U	Intel UHD Graphics 620	3.97	1.8
ASUS	VivoBook Pro 15 N580GD	Intel Core i7-8750H Intel Core i5-8300H	NVIDIA GeForce GTX 1050	4.39 Non Touch 5.05 Touch	1.99 Non Touch 2.29 Touch
ASUS	ProArt StudioBook Pro 15 W500GST	Intel Core i7-9750H	NVIDIA Quadro RTX5000 with Max-Q	4.38	1.985
ASUS	ProArt StudioBook Pro 15 H500GV	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	4.4	2
CHUWI	LapBook Plus	Intel Atom X7-E3950	Intel HD Graphics 505	3.35	1.52
CHUWI	LapBook 15.6	Intel Atom x5-Z8350	Intel Graphics	4.1	1.86
Fujitsu	Lifebook E559	Intel Core i5-8265U Intel Core i3-8145U	Intel UHD Graphics 620	4.49	2.04
Fujitsu	Lifebook U759	Intel Core i5-8265U	Intel UHD Graphics 620	3.79	1.72
HP	15t touch	Intel Core i7-8565U	NVIDIA GeForce MX250	4.27	1.94
HP	Notebook 15-dw0091	Intel Core i7-8565U	Intel UHD Graphics 620	3.85	1.75
HP	250 G7	Intel Core i5-8265U	Intel UHD Graphics 620	3.91	1.77
HP	255 G7	AMD Ryzen 3 2200U	AMD Radeon Vega 3 Graphics	3.91	1.77

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
HP	OMEN 15t	Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce GTX 1650 NVIDIA GeForce RTX 2060 NVIDIA GeForce GTX 1660Ti NVIDIA GeForce RTX 2070	5.26	2.39
HP	OMEN X 2S	Intel Core i7-9750H Intel Core i9-9880H	NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2080	5.24	2.38
HP	OMEN 15-dc0011nr	Intel Core i5-8300H	NVIDIA GeForce GTX 1060	5.45	2.47
HP	Pavilion Gaming laptop 15t	Intel Core i7-9750H Intel Core i5-9300H	NVIDIA GeForce GTX 1650 NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1660Ti	4.92	2.23
HP	Pavilion Gaming laptop 15z	AMD Ryzen 5 3550H AMD Ryzen 7 3750H	NVIDIA GeForce GTX 1650 NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1660Ti	5.16	2.34
HP	Pavilion 15-cs1067nr	Intel Core i7-8550U	Intel UHD Graphics 620	4.08	1.85
HP	Pavilion 15-cw0088nr	AMD Ryzen 5 2500U	AMD Radeon Vega 8 Graphics	3.97	1.8
HP	HP Gaming Pavilion 15-dk0030nr	Intel Core i7-9750H	NVIDIA GeForce GTX 1660	4.92	2.23
HP	Laptop 15t	Intel Core i7-8565U	NVIDIA GeForce MX250	3.84	1.74
HP	Laptop 15z	AMD Ryzen 3 3200U AMD Ryzen 5 3500U	AMD Radeon Vega 3 Graphics AMD Radeon Vega 8 Graphics	4.6	2.09
HP	Pavilion 15t	Intel Core i7-8565U	NVIDIA GeForce MX250	4.27	1.94
HP	Pavilion 15t touch	Intel Core i7-8565U	NVIDIA GeForce MX250	4.27	1.94
HP	Pavilion 15z Touch	AMD Ryzen 5 3500U AMD Ryzen 7 3700U	AMD Radeon Vega 8 Graphics AMD Radeon Vega 10 Graphics	4.27	1.94

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
HP	EliteBook 850 G5	Intel Core i7-8650U Intel Core i5-8250U	AMD Radeon RX 540	3.94 (non-touch) 4.37 (touch)	1.79 (non-touch) 1.98 (touch)
HP	EliteBook 850 G6	Intel Core i7-8665U	Intel UHD Graphics 620	3.94	1.79
HP	ProBook 450 G6	Intel Core i7-8565U	NVIDIA GeForce MX130	4.41	2
HP	ProBook 455R G6	AMD Ryzen 3 3200U AMD Ryzen 3 3300U AMD Ryzen 5 3500U AMD Ryzen 7 3700U	AMD Radeon RX Vega 10 AMD Radeon Vega 8 AMD Radeon Vega 6 AMD Radeon Vega 3	4.41	2
HP	ProBook 650 G4	Intel Core i7-8650U Intel Core i7-8550U Intel Core i7-7500U Intel Core i7-7600U Intel Core i5-8350U Intel Core i5-8250U Intel Core i5-7300U Intel Core i5-7200U Intel Core i3-8130U	AMD Radeon RX540	4.8 (non-touch) 5.31 (touch)	2.18 (non-touch) 2.41 (touch)
HP	ProBook 650 G5	Intel Core i7-8565U	Intel UHD Graphics 620	4.8	2.18
HP	Zbook 15 G5	Intel i5-8300H Intel i5-8400H Intel i7-8750H Intel i7-8850H Intel Core i9-8950HK Intel Xeon E-2176M Intel Xeon E2186M	NVIDIA Quadro P1000 NVIDIA Quadro P2000 AMD RadeonPro WX 4150	5.79	2.63

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
HP	Zbook 15 G6	Intel Core i5-9300H Intel Core i5-9400H Intel Core i7-9750H Intel Core i7-9850H Intel Core i9-9880H Intel Xeon E 2286M	NVIDIA Quadro T1000 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000	5.7	2.59
HP	Zbook 15u G6	Intel Core i7-8565U	AMD Radeon Pro WX 3200	3.89	1.76
HP	Zbook 15v G5	Intel Core i5-9300H Intel Core i5-8300H Intel Core i5-9400H Intel Core i5-8400H Intel Core i7-9750H Intel Core i7-8750H Intel Core i7-8850H Intel Core i9-9880H Intel Xeon E 2176M	NVIDIA Quadro P600	4.72	2.14
HP	Zbook Studio G5	Intel Core i7-8750H	NVIDIA Quadro P1000	4.4	2
HP	Zbook Studio G5 Mobile Workstation	Intel Core i5-8300H Intel Core i5-9400H Intel Core i7-8750H Intel Core i7-9750H Intel Core i7-9850H Intel Core i9-9880H Intel Core i7-9850H Intel Core i9-8950HK Intel Core i9-9980HK Intel Xeon E 2176M Intel Xeon E 2186M	NVIDIA Quadro P1000 NVIDIA Quadro P2000	4.54	2.06

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Huawei	MateBook D	Intel Core i3-7020U Intel Core i3-8130U Intel Core i5-8250U Intel Core i7-8550U	NVIDIA GeForce MX150	4.19	1.9
Lenovo	Ideapad S145 (Intel)	Intel Core i3-8145U Intel Pentium Gold 5405U	Intel UHD Graphics	4.08	1.85
Lenovo	Ideapad S145 (AMD)	AMD A9-9425 AMD A6-9225 AMD A4-9125	AMD Radeon Graphics	4.08	1.85
Lenovo	Ideapad S340 (Intel)	Intel Core i5-1035G1U Intel Core i5-8265U	Intel UHD Graphics	3.96	1.79
Lenovo	Ideapad S340 (AMD)	AMD Ryzen 3 3200U AMD Ryzen 5 3500U	AMD Radeon Vega 8 AMD Radeon Vega 3	3.96	1.79
Lenovo	Ideapad L340 (Gaming Laptop)	Intel Core i5-9300H Intel Core i7-9750H	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1650	4.8	2.2
Lenovo	Ideapad L340 (Intel)	Intel Pentium Gold 5405U Intel Core i3-8145U Intel Core i5-8265U	Intel UHD Graphics	4.8	2.2
Lenovo	Ideapad L340 (AMD)	AMD Ryzen 3 3200U AMD Ryzen 5 3500U	AMD Radeon Vega 8 AMD Radeon Vega 3	4.8	2.2
Lenovo	Ideapad S540	Intel Core i5-10210U Intel Core i7-8565U	Intel UHD Graphics	4.29	1.95
Lenovo	Ideapad S740	Intel Core i7-9750H	NVIDIA GeForce GTX 1650	4.2	1.9
Lenovo	Legion Y540	Intel Core i5-9300H Intel Core i7-9750H	NVIDIA GeForce GTX 1650 NVIDIA GeForce GTX 1660Ti NVIDIA GeForce RTX 2060	5.1	2.3

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Lenovo	Legion Y545	Intel Core i5-9300H Intel Core i7-9750H	NVIDIA GeForce GTX 1650 NVIDIA GeForce GTX 1660Ti NVIDIA GeForce RTX 2060	5.1	2.3
Lenovo	Legion Y740	Intel Core i7-8750H	NVIDIA GeForce RTX 20170	5.1	2.3
Lenovo	ThinkPad P1 Gen 2	Intel Core i9-9850H Intel Xeon E-2276M	NVIDIA Quadro T1000 NVIDIA Quadro T2000	3.74	1.69
Lenovo	ThinkPad P51	Intel Core i7-6820HQ	NVIDIA Quadro M1200	5.6	2.5
Lenovo	ThinkPad P53	Intel Core i9-9850H Intel Xeon E-2276M	NVIDIA Quadro T1000 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000	5.51	2.5
Lenovo	ThinkPad P53s	Intel Core i7-8665U	NVIDIA Quadro P520	3.87	1.75
Lenovo	ThinkPad E590	Intel Core i7-8565U	Intel UHD Graphics	4.68	2.12
Lenovo	ThinkPad E595	AMD Ryzen 3 3200U AMD Ryzen 5 3500U AMD Ryzen 7 3700U	AMD Radeon RX Vega 10 AMD Radeon Vega 8 AMD Radeon Vega 3	4.7	2.1
Lenovo	ThinkPad T580	Intel Core i7-8650U	Intel UHD Graphics	4.29	1.95
Lenovo	ThinkPad T590	Intel Core i7-8665U Intel Core i5-8365U	NVIDIA GeForce MX250	3.87	1.75
Lenovo	ThinkPad L580	Intel Core i5-8250U	Intel UHD Graphics	4.46	2
Lenovo	ThinkPad L590	Intel Core i7-8665U Intel Celeron 4305U	AMD Radeon 535	4.48	2.03
Lenovo	ThinkPad X1 Extreme	Intel Core i7-8850H	NVIDIA GeForce GTX 1050 Ti	3.76 (FHD non-touch) 4.06 (4K touch)	1.71 (FHD non-touch) 1.81 (4K touch)

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Lenovo	ThinkPad X1 Extreme Gen 2	Intel Core i5-9300H Intel Core i5-9400H Intel Core i7-9750H Intel Core i7-9850H Intel Core i9-9880H	NVIDIA GeForce GTX 1650 Max-Q	3.76	1.7
Lenovo	ThinkBook 15	Intel Core i7-10510U	AMD Radeon 625	3.75	1.7
Lenovo	V330	Intel Core i7-8550U	Intel UHD Graphics	3.97	1.8
LG	gram (15Z980)	Intel Core i7-8550U	Intel UHD Graphics 620	2.41	1.095
LG	gram (15Z990)	Intel Core i7-8565U	Intel UHD Graphics 620	2.41	1.095
LG	gram (15Z975)	Intel Core i5-8250U	Intel UHD Graphics 620	2.4	1.09
LG	gram (15Z970)	Intel Core i5-7200U	Intel HD Graphics 620	2.4	1.09
Razer	Blade 15 (Base model)	Intel Core i7-8750H Intel Core i7-9750H	NVIDIA GeForce GTX 1060 NVIDIA GeForce GTX 1660Ti NVIDIA GeForce RTX 2060	4.48 - 4.63	2.03 - 2.10
Razer	Blade 15 (Advanced model)	Intel Core i7-8750H Intel Core i7-9750H	NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2080 NVIDIA Quadro RTX 5000	4.56 - 5.07	2.07 - 2.3
Sager	NP6854	Intel Core i5-9300H	NVIDIA GeForce GTX 1050	4.85	2.2
Sager	NP6855	Intel Core i9-9750H	NVIDIA GeForce GTX 1650	4.85	2.2
Sager	NP8453	Intel Core i7-9750H Intel Core i9-9980HK	NVIDIA GeForce RTX 2070	5.51	2.49

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Sager	NP8454	Intel Core i7-9750H Intel Core i9-9980HK	NVIDIA GeForce RTX 2070	5.51	2.49
Sager	NP9156-G3	Intel Core i5-9600K Intel Core i7-9700K Intel Core i9-9900K	NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2080	7.5	3.4
Sager	NP9156-G2	Intel Core i5-9600K Intel Core i7-9700K Intel Core i9-9900K	NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2080	7.5	3.4
Sager	NP9156-G1	Intel Core i5-9600K Intel Core i7-9700K Intel Core i9-9900K	NVIDIA GeForce RTX 2060 NVIDIA GeForce RTX 2070 NVIDIA GeForce RTX 2080	7.5	3.4
Sager	NP3156	Intel Core i5-10210U Intel Core i7-10510U	Intel UHD Graphics	3.7	1.68
Samsung	Notebook 5 NP550XTA-K01US	AMD Ryzen 5 2500U	AMD Radeon Vega 8 Graphics	4.3	1.95
Samsung	Notebook 7 NP750XBE-X01US	Intel Core i7-8565U	NVIDIA GeForce MX250	3.95	1.79
Samsung	Notebook 7 (NP750XBE-K01US)	Intel Core i7-8565U	Intel UHD Graphics 620	3.73	1.69
Samsung	Notebook 7 (NP750XBE-K02US)	Intel Core i7-8565U	NVIDIA GeForce MX250	3.73	1.69
Samsung	Notebook 7 Force NP760XBE-X01US	Intel Core i7-8565U	NVIDIA GeForce GTX 1650	4.08	1.85
Samsung	Notebook 9 NP900X5L-K02US	Intel Core i7-6500U	Intel HD Graphics 520	2.9	1.32

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Samsung	Notebook Odyssey NP850XBC-X02US	Intel Core i7-9750H	NVIDIA GeForce RTX 2060	5.27	2.39
Samsung	Notebook Odyssey NP850XBC-X01US	Intel Core i7-8750H	NVIDIA GeForce RTX 2060	5.29	2.4
Samsung	Notebook Odyssey NP850XBD-X02US	Intel Core i7-9750H	NVIDIA GeForce GTX 1650	5.27	2.39
Samsung	Notebook Odyssey Z NP850XAC-X01US	Intel Core i7-8750H	NVIDIA GeForce GTX 1060	5.29	2.4
Toshiba	Tecra C50 D1510	Intel Core i3-7100U	Intel HD Graphics 620	4.85	2.2
Toshiba	Tecra C50 D1512	Intel Core i5-7200U	Intel HD Graphics 620	4.52	2.05
Toshiba	Tecra C50 E1516	Intel Core i5-8250U	Intel UHD Graphics 620	4.85	2.2
Toshiba	Tecra A50 D1532	Intel Core i5-7200U	Intel HD Graphics 620	4.85	2.2
Toshiba	Tecra A50 D1534	Intel Core i5-7200U	Intel HD Graphics 620	4.85	2.2
Toshiba	Tecra A50 EC1520	Intel Core i5-8250U	Intel UHD Graphics 620	4.85	2.2
Toshiba	Tecra A50 EC1521	Intel Core i5-8250U	Intel UHD Graphics 620	4.85	2.2
Toshiba	Tecra A50 EC1525	Intel Core i7-8550U	Intel UHD Graphics 620	4.85	2.2
Toshiba	Tecra A50 EC1528	Intel Core i7-8550U	Intel UHD Graphics 620	4.85	2.2

Brand	Model	Processor	Discrete graphics card	Weight	
				Pounds	Kilograms
Toshiba	Tecra X50 F-BTO	Intel Core i5-8265U Intel Core i5-8365U Intel Core i7-8565U Intel Core i7-8665U	Intel UHD Graphics 620	3.13	1.42

Figure 1: Dimensional information. All links and data current as of 11/15/2019.

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Principled Technologies, Inc.
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