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31362122880 153095891340 64228695757 23433158.708333 42967585.285714 15313311232 191693232126 67905139.448276 24034367.761905 187932654.57143 3051828174 6110559.2619048 66621608460 73827659400 95677743700 38448.545454545 122742278220

Acer aspire t3 710 specs chart printable template pdf

The viewing-angle stable IPS panel is legible from any position. We used the automatic AI function here. Then join our Team! - German-English-Translator (English native speakers preferred) Details here Top 10 LaptopsMultimedia, Budget Multimedia, Gaming, Budget Gaming, Lightweight Gaming, Business, Budget Office, Workstation, Subnotebooks, Ultrabooks, Chromebooks under 300 USD/Euros, under 500 USD/Euros, 1,000 USD/Euros, for University Students, Best Displays Top 10 SmartphonesSmartphones, Phablets, ≤6-inch, Camera Smartphones Compared to the Aorus 17G XB, the 17G YD has received some upgrades in terms of ports. The device's gaming performance is average for an RTX 3080. rise ↗ and fall ↘ combined↗ 6.8 ms rise↘ 6.8 ms fallThe screen shows good response rates in our tests, but may be too slow for competitive gamers.In comparison, all tested devices range from 0.692 (minimum) to 636 (maximum) ms. Calibration can be used to achieve improvements. Power Consumption Off / Standby 1 / 1.5 WattIdle 24 / 26 / 38 Watt Load 101 / 230 Watt Key: min: , med: , max: Metrahit EnergyCurrently we use the Metrahit Energy, a professional single phase power quality and energy measurement digital multimeter, for our measurements. Left side: Gigabit Ethernet, memory card reader (SD), USB 3.2 Gen 1 (Type-A), mic in, headset out, USB 3.2 Gen 1 (Type-A) Right side: USB 3.2 Gen 1 (Type-A), Thunderbolt 4 (Type-C; DisplayPort, Power Delivery), Mini DisplayPort 1.4, HDMI 2.1, power supply Alienware m17 R4Intel Killer Wi-Fi 6 AX1650wAorus 17G YDIntel Wi-Fi 6 AX200 1369 (693min - 1436max) MBit/s ~88% Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)Intel Wi-Fi 6 AX200Aorus 17G XBKiller Wi-Fi 6 AX1650x Wireless Network Adapter (200NGW)MSI GE76 Raider 10UHIntel Wi-Fi 6E AX210 1240 (422min - 1441max) MBit/s ~80% -9%Average of class Gaming (450 - 1622, n=167, last 2 years)Lenovo Legion 7 16ACHg6Killer Wi-Fi 6 AX1650x Wireless Network Adapter (200NGW) 1120 (1004min - 1256max) MBit/s ~72% -18%Average Intel Wi-Fi 6 AX200 (447 - 1645, n=126)Asus Strix Scar 17 G733QSA-XS99Intel Wi-Fi 6 AX200 907 (799min - 997max) MBit/s ~59% -34%Alienware m17 R4Intel Killer Wi-Fi 6 AX1650wAsus Strix Scar 17 G733QSA-XS99Intel Wi-Fi 6 AX200 1433 (1359min - 1510max) MBit/s ~90% +23%Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)Intel Wi-Fi 6 AX200MSI GE76 Raider 10UHIntel Wi-Fi 6E AX210 1261 (629min - 1366max) MBit/s ~79% +8%Aorus 17G XBKiller Wi-Fi 6 AX1650x Wireless Network Adapter (200NGW)Average of class Gaming (90 - 1743, n=167, last 2 years)Average Intel Wi-Fi 6 AX200 (523 - 1684, n=127)Aorus 17G YDIntel Wi-Fi 6 AX200 1169 (619min - 1217max) MBit/s ~73% Lenovo Legion 7 16ACHg6Killer Wi-Fi 6 AX1650x Wireless Network Adapter (200NGW) 948 (830min - 1016max) MBit/s ~59% -19% While the contrast (1,192:1) of the matte 17.3-inch display (1920x1080 pixels) meets the target (> 1,000:1), the average brightness (282.4 cd/m²) is too low. The sRGB color space is covered by 100%, while the AdobeRGB color space is covered by 74%.CalMAN - Grayscales CalMAN - Color saturation CalMAN - ColorChecker CalMAN - Grayscales (calibrated) CalMAN - Color saturation (calibrated) CalMAN - ColorChecker (calibrated)Aorus 17G YD vs. The HDMI port supports the 2.1 standard (XB: 2.0), which enables higher resolutions and frame rates. An NVMe SSD serves as system drive. Compared with the RTX 3080 laptops tested so far, the 17G performs decently and delivers average to slightly below-average frame rates. This profile isn't recommended for prolonged use because it keeps the fans running at full power. RAID 0/1 is not supported, though. 34 °C93 F34 °C93 F36 °C97 F 28 °C82 F31 °C88 F32 °C90 F 26 °C79 F27 °C81 F27 °C81 F Maximum: 36 °C = 97 FAverage: 30.6 °C = 87 F 50 °C122 F52 °C126 F44 °C111 F51 °C124 F50 °C122 F38 °C100 F37 °C99 F36 °C97 F36 °C97 F Maximum: 52 °C = 126 FAverage: 43.8 °C = 111 F Power Supply (max.) 45 °C = 113 F | Room Temperature 22 °C = 72 F | Fluke t3000FC (calibrated), Voltcraft IR-900 27 °C81 F28 °C82 F27 °C81 F 28 °C82 F29 °C84 F29 °C84 F 27 °C81 F27 °C81 F27 °C81 F Maximum: 29 °C = 84 FAverage: 27.7 °C = 82 F 31 °C88 F32 °C90 F29 °C84 F33 °C91 F33 °C91 F32 °C90 F30 °C86 F31 °C88 F32 °C90 F Maximum: 33 °C = 91 FAverage: 31.4 °C = 89 F Power Supply (max.) 39 °C = 102 F | Room Temperature 22 °C = 72 F | Fluke t3000FC (calibrated), Voltcraft IR-900 36 °C97 F40 °C104 F37 °C99 F 30 °C86 F34 °C93 F34 °C93 F 28 °C82 F29 °C84 F29 °C84 F Maximum: 40 °C = 104 FAverage: 33 °C = 91 F 51 °C124 F51 °C124 F43 °C109 F51 °C124 F53 °C127 F39 °C102 F38 °C100 F37 °C99 F36 °C97 F Maximum: 53 °C = 127 FAverage: 44.3 °C = 112 F Power Supply (max.) 45 °C = 113 F | Room Temperature 22 °C = 72 F | Fluke t3000FC (calibrated), Voltcraft IR-900(+) The average temperature for the upper side under maximal load is 30.6 °C / 87 F, compared to the average of 33.8 °C / 93 F for the devices in the class Gaming.(+) The maximum temperature on the upper side is 36 °C / 97 F, compared to the average of 40.3 °C / 105 F, ranging from 21.6 to 68.8 °C for the class Gaming.(-) The bottom heats up to a maximum of 52 °C / 126 F, compared to the average of 43.1 °C / 110 F(+) In idle usage, the average temperature for the upper side is 27.7 °C / 82 F, compared to the device average of 33.8 °C / 93 F.(±) Playing The Witcher 3, the average temperature for the upper side is 33 °C / 91 F, compared to the device average of 33.8 °C / 93 F.(+) The palmrests and touchpad are cooler than skin temperature with a maximum of 29 °C / 84.2 F and are therefore cool to the touch. smaller is better Out of the box, the display shows a good color reproduction and meets the target with a color deviation of 2.79 (DeltaE less than 3). The Cinebench R15 benchmark's CPU tests are run at 4.2 GHz (multithread) and 4.2 to 4.5 GHz (single-thread), respectively. The power adapter's nominal output is 230 watts. Hyper-Threading (two threads per core) is supported. The display also shows an uneven brightness distribution. Not only does this include the CPU's and GPU's computing power and overclocking, but it also covers the display brightness, the color temperature, and the keyboard backlight. Aorus 17G YDi7-11800H, GeForce RTX 3080 Laptop GPUMSI GP76 Leopard 10UGi7-10750H, GeForce RTX 3070 Laptop GPUAsus Strix Scar 17 G733QSA-XS99R9 5900HX, GeForce RTX 3080 Laptop GPULenovo Legion 7 16ACHg6R9 5900HX, GeForce RTX 3080 Laptop GPUSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)R7 5800H, GeForce RTX 3070 Laptop GPUAorus 17G XBi7-10875H, GeForce RTX 2070 Super Max-QAverage of class Gaming Idle Minimum *2413.3 ?(2 - 62, n=182, last 2 years) 45%Idle Average *2617.9 ?(6 - 68.2, n=182, last 2 years) 31%Idle Maximum *3825.8 ?(8.7 - 72.5, n=181, last 2 years) 32%Load Average *101108.8 ?(48.4 - 198, n=183, last 2 years) -8%Witcher 3 ultra *164Load Maximum *230218 ?(103.1 - 512, n=183, last 2 years) 5%* ... The 3DMark results are somewhere between average and below average compared to the RTX 3080 laptops we have tested so far. However, the device generates a high noise level.Throttling is not an issue. The mechanical keyboard (with RGB lighting) left a good impression and will be an important factor for many prospective buyers. Aorus 17G YD - 2021-06-21 06/21/2021 v7 Sascha Mölck Connectivity70 / 80 → 88% Application Performance95% Gaming - Weighted Average Please share our article, every link counts! We use this test to verify that the system remains stable under full load.The Witcher 3 Stress test Full load - Top Full load - BottomThe laptop heats up noticeably. frequency)Mids 400 - 2000 Hz(±) | higher mids - on average 5.4% higher than median(±) | linearity of mids is average (7.1% delta to prev. Match 64Bit99.6 % Help Aorus 17G YDIntel Core i7-11800H (Turbo Mode)Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800HAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXAverage Intel Core i7-11800H (1386 - 1522, n=37)Average of class Gaming (778 - 1920, n=145, last 2 years)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAlienware m17 R4Intel Core i9-10980HKMSI GE76 Raider 10UHIntel Core i7-10870HAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX 13618 (13498.1min - 13618.3max) Points ~100% +6%Aorus 17G YDIntel Core i7-11800H (Turbo Mode)Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800HAverage of class Gaming (4032 - 19250, n=146, last 2 years)Average Intel Core i7-11800H (6508 - 14088, n=39)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAlienware m17 R4Intel Core i9-10980HKMSI GE76 Raider 10UHIntel Core i7-10870H 10450 (9829.16min - 10450.5max) Points ~77% -19%Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800H (Turbo Mode)Average Intel Core i7-11800H (520 - 586, n=38)Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800HSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAverage of class Gaming (300 - 736, n=220, last 2 years)Alienware m17 R4Intel Core i9-10980HKAorus 17G XBIntel Core i7-10875HMSI GE76 Raider 10UHIntel Core i7-10870HAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXLenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800H (Turbo Mode)Aorus 17G YDIntel Core i7-11800HSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAverage Intel Core i7-11800H (2498 - 5408, n=41)Alienware m17 R4Intel Core i9-10980HKAverage of class Gaming (1397 - 7382, n=220, last 2 years)MSI GE76 Raider 10UHIntel Core i7-10870HAorus 17G XBIntel Core i7-10875HLenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAorus 17G YDIntel Core i7-11800HAverage Intel Core i7-11800H (201 - 231, n=37)Average of class Gaming (108 - 277, n=223, last 2 years)Alienware m17 R4Intel Core i9-10980HKAorus 17G XBIntel Core i7-10875HMSI GE76 Raider 10UHIntel Core i7-10870HAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX 2223 (2202.89min - 2222.96max) Points ~100% +6%Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G YDIntel Core i7-11800H (Turbo Mode)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800H 2108 (2036.87min - 2108.48max) Points ~95% +1%Aorus 17G YDIntel Core i7-11800HAverage Intel Core i7-11800H (1342 - 2173, n=40)Alienware m17 R4Intel Core i9-10980HK 1853 (1809.95min - 1853.31max) Points ~83% -11%Aorus 17G XBIntel Core i7-10875H 1833 (1597.83min - 1832.68max) Points ~82% -12%Average of class Gaming (536 - 2909, n=233, last 2 years)MSI GE76 Raider 10UHIntel Core i7-10870H 1715 (1653.3min - 1715.27max) Points ~77% -18%Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAorus 17G YDIntel Core i7-11800H (Turbo Mode)Aorus 17G YDIntel Core i7-11800HAverage Intel Core i7-11800H (5138 - 5716, n=38)Alienware m17 R4Intel Core i9-10980HKAorus 17G XBIntel Core i7-10875HAverage of class Gaming (2743 - 6506, n=219, last 2 years)MSI GE76 Raider 10UHIntel Core i7-10870HAsus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXLenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAorus 17G YDIntel Core i7-11800H (Turbo Mode)Alienware m17 R4Intel Core i9-10980HKAverage Intel Core i7-11800H (33718 - 56758, n=38)Aorus 17G YDIntel Core i7-11800HAverage of class Gaming (21148 - 76063, n=219, last 2 years)Aorus 17G XBIntel Core i7-10875HMSI GE76 Raider 10UHIntel Core i7-10870HAorus 17G YDIntel Core i7-11800H (Turbo Mode)Average Intel Core i7-11800H (1429 - 1625, n=32)Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXLenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAverage of class Gaming (703 - 1918, n=212, last 2 years)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAlienware m17 R4Intel Core i9-10980HKAorus 17G XBIntel Core i7-10875HMSI GE76 Raider 10UHIntel Core i7-10870HAorus 17G YDIntel Core i7-11800HAorus 17G YDIntel Core i7-11800H (Turbo Mode)Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HXAverage Intel Core i7-11800H (4655 - 9851, n=32)Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HXAorus 17G XBIntel Core i7-10875HAlienware m17 R4Intel Core i9-10980HKSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800HAverage of class Gaming (2783 - 13796, n=212, last 2 years)MSI GE76 Raider 10UHIntel Core i7-10870H* ... smaller is better dB(A) 0102030405060708090Deep BassMiddle BassHigh BassLower RangeMidsHigher MidsLower HighsMid HighsUpper HighsSuper Highs2040.845.22535.641.13146.451.94029.535.45024.934.46326.836.88017.836.610015241251525.116016.725.920018.333.125015.849.231514.557.540012.465.450011.972.963011.87780011.477.1100012.276.2125012.672.2160012.768200012.565.7250012.865.7315014.465.5400015.470.1500013.867.8630013.467.2800013.268.31000013.165.61250012.872.31600012.173.3SPL25.583.3N0.756.2median 13.1median 67.2Delta1.411.233.236.443.329.736.129.722.822.222.821.421.121.42228.52232.237.932.244.326.544.351.322.851.354.332.454.358.718.858.755.916.655.951.817.355.854.318.556.356.517.456.558.714.158.757.513.357.560.511.860.556.411.656.455.111.255.155.411.455.458.211.558.266.711.566.766.611.766.661.211.461.266011.66062.511.862.559.311.859.353.112.153.149.811.649.850.311.150.373.725.273.732.30.732.3median 56.5median 11.8median 56.52.72.52.7hearing rangehide medianshow median Pink NoiseAorus 17G YDAsus Strix Scar 17 G733QSA-XS99Frequency diagram (checkboxes can be checked and unchecked to compare devices)(+) | speakers can play relatively loud (83 dB)Bass 100 - 315 Hz(-) | nearly no bass - on average 31.4% lower than median(±) | linearity of bass is average (14.2% delta to prev. The stress test represents an extreme scenario. 3DMark 11 Performance 28733 points3DMark Cloud Gate Standard Score 49494 points3DMark Fire Strike Score 22898 points3DMark Time Spy Score 10195 pointsHelp Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)NVIDIA GeForce RTX 3070 Laptop GPU, AMD Ryzen 7 5800HLenovo Legion 7 16ACHg6NVIDIA GeForce RTX 3080 Laptop GPU, AMD Ryzen 9 5900HXAorus 17G XBNVIDIA GeForce RTX 2070 Super Max-Q, Intel Core i7-10875HAorus 17G YDNVIDIA GeForce RTX 3080 Laptop GPU, Intel Core i7-11800HAverage NVIDIA GeForce RTX 3080 Laptop GPU (38816 - 192950, n=31)Average of class Gaming (23059 - 192950, n=173, last 2 years)Asus Strix Scar 17 G733QSA-XS99NVIDIA GeForce RTX 3080 Laptop GPU, AMD Ryzen 9 5900HXMSI GP76 Leopard 10UGNVIDIA GeForce RTX 3070 Laptop GPU, Intel Core i7-10750HLenovo Legion 7 16ACHg6NVIDIA GeForce RTX 3080 Laptop GPU, AMD Ryzen 9 5900HXSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)NVIDIA GeForce RTX 3070 Laptop GPU, AMD Ryzen 7 5800HAverage NVIDIA GeForce RTX 3080 Laptop GPU (16455 - 32366, n=42)Aorus 17G YDNVIDIA GeForce RTX 3080 Laptop GPU, Intel Core i7-11800H (Turbo Mode)Aorus 17G YDNVIDIA GeForce RTX 3080 Laptop GPU, Intel Core i7-11800HAverage of class Gaming (1360 - 34993, n=223, last 2 years)Aorus 17G XBNVIDIA GeForce RTX 2070 Super Max-Q, Intel Core i7-10875HAsus Strix Scar 17 G733QSA-XS99NVIDIA GeForce RTX 3080 Laptop GPU, AMD Ryzen 9 5900HXLenovo Legion 7 16ACHg6NVIDIA GeForce RTX 3080 Laptop GPU, AMD Ryzen 9 5900HXSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)NVIDIA GeForce RTX 3070 Laptop GPU, AMD Ryzen 7 5800HMSI GP76 Leopard 10UGNVIDIA GeForce RTX 3070 Laptop GPU, Intel Core i7-10750HAverage NVIDIA GeForce RTX 3080 Laptop GPU (6407 - 13210, n=41)Aorus 17G YDNVIDIA GeForce RTX 3080 Laptop GPU, Intel Core i7-11800H (Turbo Mode)Aorus 17G YDNVIDIA GeForce RTX 3080 Laptop GPU, Intel Core i7-11800HAverage of class Gaming (429 - 13324, n=226, last 2 years)Aorus 17G XBNVIDIA GeForce RTX 2070 Super Max-Q, Intel Core i7-10875H The installed hardware brings all the latest games smoothly onto the screen. This is accompanied by good PCMark results. frequency)Highs 2 - 16 kHz(+) | balanced highs - only 1.4% away from median(+) | highs are linear (3% delta to prev. During the stress test, we register temperatures in the lower 50 °C (~122 °F) range at several measuring points on the bottom. However, the maximum brightness is too low. frequency)Highs 2 - 16 kHz(±) | higher highs - on average 5.9% higher than median(±) | linearity of highs is average (8.7% delta to prev. The color deviation drops to 1.08, and grayscales are represented in a more balanced way. Users who have never used this kind of keyboard will need to get used to the typing experience. Turbo nearly operates at full power.CPU clock speeds while running the CB15 loop CPU clock speeds while running the CB15 loop (Turbo mode) Cinebench R15 CPU Single 64Bit227 Points Cinebench R15 CPU Multi 64Bit2089 Points Cinebench R15 OpenGL 64Bit188 fps Cinebench R15 Ref. Battery life is okay, but it lags behind that of the sibling model - despite the battery having a slightly larger capacity (94 Wh vs. A drop in frame rates wasn't found. Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 114 (60min, 74.4P0.1, 86.2P1 - 231max) fps ~100% +8%MSI GP76 Leopard 10UGIntel Core i7-10750H, NVIDIA GeForce RTX 3070 Laptop GPUAorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU 106 (43.4min, 50.9P0.1, 68.2P1 - 195max) fps ~93% Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 105.5 (91min - 115max) fps ~93% 0%Average NVIDIA GeForce RTX 3080 Laptop GPU (85.1 - 123, n=38)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800H, NVIDIA GeForce RTX 3070 Laptop GPUAverage of class Gaming (30 - 126, n=223, last 2 years)Aorus 17G XBIntel Core i7-10875H, NVIDIA GeForce RTX 2070 Super Max-Q 73.6 (62min) fps ~65% -31%Aorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPUAorus 17G XBIntel Core i7-10875H, NVIDIA GeForce RTX 2070 Super Max-Q 129 (112.4min) fps ~99% -1%Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800H, NVIDIA GeForce RTX 3070 Laptop GPU 128 (112.9min) fps ~98% -2%Aorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (Turbo Mode) 128 (111.9min) fps ~98% -2%Average NVIDIA GeForce RTX 3080 Laptop GPU (98 - 156, n=41)Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 125 (110.8min) fps ~96% -4%Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 123 (108.7min) fps ~95% -5%Average of class Gaming (22 - 159, n=205, last 2 years)MSI GP76 Leopard 10UGIntel Core i7-10750H, NVIDIA GeForce RTX 3070 Laptop GPU 117 (101.8min) fps ~90% -10%Aorus 17G XBIntel Core i7-10875H, NVIDIA GeForce RTX 2070 Super Max-QAorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (Turbo Mode)Aorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPUAverage NVIDIA GeForce RTX 3080 Laptop GPU (65.6 - 113, n=40)Lenovo Legion 7 16ACHg6AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPUMSI GP76 Leopard 10UGIntel Core i7-10750H, NVIDIA GeForce RTX 3070 Laptop GPUAverage of class Gaming (13.7 - 117.5, n=205, last 2 years)Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPUSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800H, NVIDIA GeForce RTX 3070 Laptop GPULenovo Legion 7 16ACHg6AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 103 (22.6min, 76.9P1 - 188max) fps ~100% +8%Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)AMD Ryzen 7 5800H, NVIDIA GeForce RTX 3070 Laptop GPU 97 (8.76min, 66.7P1 - 172max) fps ~94% +1%Average NVIDIA GeForce RTX 3080 Laptop GPU (68.6 - 112, n=32)Aorus 17G YDIntel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU 95.7 (17.9min, 66.7P1 - 174max) fps ~93% Asus Strix Scar 17 G733QSA-XS99AMD Ryzen 9 5900HX, NVIDIA GeForce RTX 3080 Laptop GPU 93 (7.94min, 71.4P1 - 160max) fps ~90% -3%Aorus 17G XBIntel Core i7-10875H, NVIDIA GeForce RTX 2070 Super Max-Q 91.1 (9.54min, 58.8P1 - 197max) fps ~88% -5%Average of class Gaming (4.18 - 125, n=146, last 2 years) In order to verify whether the frame rates remain largely constant over a prolonged period of time, we let the game The Witcher 3 run for about 60 minutes at Full HD resolution and maximum quality settings. The system doesn't seem to be suitable for real-time video and audio editing. However, the 300 Hz panel has fast response times and no PWM flickering. The current 17G model also comes with a Thunderbolt 4 instead of a Thunderbolt 3 port. The noise is even louder under load with maximum sound pressure levels of 61 dB(A) (stress test) and 52 dB(A) (The Witcher 3 test), respectively. 99 Wh). frequency)Mids 400 - 2000 Hz(+) | balanced mids - only 1.4% away from median(+) | mids are linear (4.8% delta to prev. PCMark 8 Home Score Accelerated v2 5265 pointsPCMark 8 Creative Score Accelerated v2 7359 pointsPCMark 8 Work Score Accelerated v2 7104 pointsPCMark 10 Score 7073 pointsHelp Asus Strix Scar 17 G733QSA-XS99GeForce RTX 3080 Laptop GPU, R9 5900HX, 2x Samsung PM981a MZVLB1T0HBLR (RAID 0)Average Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (6673 - 7470, n=11)Lenovo Legion 7 16ACHg6GeForce RTX 3080 Laptop GPU, R9 5900HX, WDC PC SN730 SDBPNTY-1T00Aorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)GeForce RTX 3070 Laptop GPU, R7 5800H, Samsung SSD 970 EVO Plus 500GBAorus 17G XBGeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQAverage of class Gaming (4077 - 8178, n=189, last 2 years)MSI GP76 Leopard 10UGGeForce RTX 3070 Laptop GPU, i7-10750H, Kingston OM8PCP3512F-ABAsus Strix Scar 17 G733QSA-XS99GeForce RTX 3080 Laptop GPU, R9 5900HX, 2x Samsung PM981a MZVLB1T0HBLR (RAID 0)Average Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (9862 - 11064, n=11)Lenovo Legion 7 16ACHg6GeForce RTX 3080 Laptop GPU, R9 5900HX, WDC PC SN730 SDBPNTY-1T00Aorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQAorus 17G XBGeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)GeForce RTX 3070 Laptop GPU, R7 5800H, Samsung SSD 970 EVO Plus 500GBAverage of class Gaming (7148 - 11078, n=188, last 2 years)MSI GP76 Leopard 10UGGeForce RTX 3070 Laptop GPU, i7-10750H, Kingston OM8PCP3512F-ABAsus Strix Scar 17 G733QSA-XS99GeForce RTX 3080 Laptop GPU, R9 5900HX, 2x Samsung PM981a MZVLB1T0HBLR (RAID 0)Aorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQLenovo Legion 7 16ACHg6GeForce RTX 3080 Laptop GPU, R9 5900HX, WDC PC SN730 SDBPNTY-1T00Average Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (8278 - 9803, n=11)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)GeForce RTX 3070 Laptop GPU, R7 5800H, Samsung SSD 970 EVO Plus 500GBMSI GP76 Leopard 10UGGeForce RTX 3070 Laptop GPU, i7-10750H, Kingston OM8PCP3512F-ABAverage of class Gaming (6161 - 10638, n=188, last 2 years)Aorus 17G XBGeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQAverage Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (9881 - 11323, n=11)Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)GeForce RTX 3070 Laptop GPU, R7 5800H, Samsung SSD 970 EVO Plus 500GBLenovo Legion 7 16ACHg6GeForce RTX 3080 Laptop GPU, R9 5900HX, WDC PC SN730 SDBPNTY-1T00Aorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQAsus Strix Scar 17 G733QSA-XS99GeForce RTX 3080 Laptop GPU, R9 5900HX, 2x Samsung PM981a MZVLB1T0HBLR (RAID 0)Aorus 17G XBGeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQAverage of class Gaming (3670 - 12905, n=188, last 2 years)MSI GP76 Leopard 10UGGeForce RTX 3070 Laptop GPU, i7-10750H, Kingston OM8PCP3512F-ABAorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQAverage Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (3941 - 5640, n=3)Average of class Gaming (3181 - 6657, n=79, last 2 years)Aorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQAverage Intel Core i7-11800H, NVIDIA GeForce RTX 3080 Laptop GPU (4756 - 7104, n=3)Average of class Gaming (4265 - 7104, n=79, last 2 years) Our standardized latency monitor test (web browsing, 4K video playback, high-load Prime95) revealed issues with DPC latencies. The display (Full HD, IPS, 300 Hz) offers stable viewing angles, good contrast, a matte surface, quick response times, great color reproduction, and good color-space coverage (sRGB: 100%). (±) The average temperature of the palmrest area of similar devices was 29 °C / 84.2 F (0 °C / 0 F). On battery power, the CPU runs at 1.6 to 4.3 GHz (multithread) and 3.2 to 4.5 GHz (single-thread).Multithread (plugged in) Single-thread (plugged in)We verify if the CPU Turbo is also consistently used when plugged in by running the Cinebench R15 benchmark's multithread test in a continuous loop for at least 30 minutes. The RTX 3070's technical limitations compared to the RTX 3080 are more than made up for by the higher TGP (140 watts). A second SSD (NVMe/SATA) can be added. If PWM was detected, an average of 21983 (minimum: 5 - maximum: 3846000) Hz was measured. All of our test methods can be found here. The latter allows the CPU and GPU to run permanently at maximum performance. sRGB Subpixel grid Aorus 17G YD vs. The Core-i7-11800H octa-core processor (Tiger Lake) runs at a base clock speed of 2.3 GHz. An increase to 4.2 GHz (eight cores) or 4.6 GHz (one core) is possible via Turbo. The standard power profiles were used.The battery has a capacity of 99 Wh. Battery Runtime Idle (without WLAN, min brightness) 9h 01min WiFi Websurfing (Edge 91) 6h 00min Big Buck Bunny H.264 1080p 6h 10min Load (maximum brightness) 1h 36min Aorus 17G YDi7-11800H, GeForce RTX 3080 Laptop GPU, 99 WhMSI GP76 Leopard 10UGi7-10750H, GeForce RTX 3070 Laptop GPU, 65 WhAsus Strix Scar 17 G733QSA-XS99R9 5900HX, GeForce RTX 3080 Laptop GPU, 90 WhLenovo Legion 7 16ACHg6R9 5900HX, GeForce RTX 3080 Laptop GPU, 80 WhSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)R7 5800H, GeForce RTX 3070 Laptop GPU, 62 WhAorus 17G XBi7-10875H, GeForce RTX 2070 Super Max-Q, 94 WhAverage of class Gaming Reader / Idle541605 ?(182 - 1399, n=126, last 2 years) 12%H.264370396 ?(92 - 860, n=75, last 2 years) 7%WiFi v1.3360357 ?(61 - 710, n=181, last 2 years) -1%Load9690.9 ?(37 - 243, n=157, last 2 years) -5% + 300 Hz panel+ good color reproduction+ narrow display bezel+ stable and high-quality case+ PCIe 4.0 SSD+ free M.2-2280 slot (NVMe/SATA)+ mechanical keyboard+ lightning fast memory card reader+ solid battery life+ Thunderbolt 4- display brightness should be higher- high noise level under load- energy consumption in idle usage could be better The Aorus 17G YD (74DE3435H), provided by Gigabyte Germany.The 17G YD isn't among the top RTX 3080 laptops due to its relatively low TGP of 105 watts. Moreover, it doesn't suffer from a blue tint. The stress test and our The Witcher 3 test allow the demand to increase up to 230 watts and an average of 164 watts, respectively. Reading the display content outdoors is possible when the sun isn't too bright. In addition, the wireless modules are disabled for the video test. Aorus 17G YDi7-11800H, GeForce RTX 3080 Laptop GPUMSI GP76 Leopard 10UGi7-10750H, GeForce RTX 3070 Laptop GPUAsus Strix Scar 17 G733QSA-XS99R9 5900HX, GeForce RTX 3080 Laptop GPULenovo Legion 7 16ACHg6R9 5900HX, GeForce RTX 3080 Laptop GPUSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)R7 5800H, GeForce RTX 3070 Laptop GPUAorus 17G XBi7-10875H, GeForce RTX 2070 Super Max-QAverage of class Gaming Maximum Upper Side *3647.7 ?(33.4 - 62, n=184, last 2 years) -33%Maximum Bottom *5252 ?(32.5 - 68, n=184, last 2 years) -0%Idle Upper Side *2931.7 ?(24.9 - 46, n=182, last 2 years) -9%Idle Bottom *3333.2 ?(24 - 46, n=182, last 2 years) -1%* ... However, you can keep tabs on Amazon and newegg, which are official Gigabyte resellers. » 15 % of all devices are better.This means that the measured response time is better than the average of all tested devices (37.1 ms). Latency Monitor Latency Monitor Aorus 17G XBGeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)GeForce RTX 3070 Laptop GPU, R7 5800H, Samsung SSD 970 EVO Plus 500GBMSI GP76 Leopard 10UGGeForce RTX 3070 Laptop GPU, i7-10750H, Kingston OM8PCP3512F-ABAorus 17G YDGeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQAsus Strix Scar 17 G733QSA-XS99GeForce RTX 3080 Laptop GPU, R9 5900HX, 2x Samsung PM981a MZVLB1T0HBLR (RAID 0)Lenovo Legion 7 16ACHg6GeForce RTX 3080 Laptop GPU, R9 5900HX, WDC PC SN730 SDBPNTY-1T00* ... Gigabyte might be able to improve this with a BIOS update. Full HD resolution and maximum quality level can usually be selected. Some benchmarks were also run with the "Turbo Mode" profile enabled. A laptop in this price range should offer more in this regard.At the time of writing, the Aorus 17G YD is not available in the United States yet. *6.23Colorchecker dE 2000 calibrated *0.82Greyscale dE 2000 *3.5Gamma2.358 93%2.26 97%2.197 100%2.275 97%2.38 92%2.281 96%2.23 99%CCT6147 106%6436 101%6377 102%6637 98%6542 99%6449 101%5702 114%Color Space (Percent of AdobeRGB 1998)74Color Space (Percent of sRGB)96* ... 328cd/m²329cd/m²318cd/m²287cd/m²286cd/m²271cd/m²242cd/m²241cd/m²240cd/m² Distribution of brightnessSharp LQ173M1JW04X-Rite i1Pro 2Maximum: 329 cd/m² (Nits) Average: 282.4 cd/m² Minimum: 6 cd/m²Brightness Distribution: 73 %Center on Battery: 286 cd/m²Contrast: 1192:1 (Black: 0.24 cd/m²)ΔE Color 2.79 | 0.59-29.43 Ø5.4, calibrated: 0.82ΔE Greyscale 3.5 | 0.64-98 Ø5.696% sRGB (Argyll 1.6.3 3D)74% AdobeRGB 1998 (Argyll 1.6.3 3D)73.7% AdobeRGB 1998 (Argyll 2.2.0 3D)100% sRGB (Argyll 2.2.0 3D)72.3% Display P3 (Argyll 2.2.0 3D)Gamma: 2.358Download ICC File (X-Rite i1Pro 2) Aorus 17G YDSharp LQ173M1JW04, IPS, 1920x1080, 17.30Asus Strix Scar 17 G733QSA-XS99AU Optronics B173HAN05.4, IPS, 1920x1080, 17.30Lenovo Legion 7 16ACHg6CSOT T3 MNG007DA1-1, IPS, 2560x1600, 16.00Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)BOE NE173QHM-NY2 (BOE0977), IPS, 2560x1440, 17.30Aorus 17G XBAU Optronics B173HAN05.0 (AUO509D), IPS, 1920x1080, 17.30Alienware m17 R4AU Optronics AUOEC91, IPS, 1920x1080, 17.30MSI GE76 Raider 10UHAU Optronics B173HAN05.1, IPS, 1920x1080, 17.30 Display P3 Coverage72.3 sRGB Coverage100 AdobeRGB 1998 Coverage73.7 Response Time Grey 50% / Grey 80% * Response Time Black / White * PWM Frequency151500Brightness middle286Brightness282Brightness Distribution73Black Level *0.24Contrast1192Colorchecker dE 2000 *2.79Colorchecker dE 2000 max. 05101520253035404550556065707580859095100105110115120125TooltipAorus 17G YD GeForce RTX 3080 Laptop GPU, i7-11800H, Samsung PM9A1 MZVL2512HCJQ: Ø116.4 (109-125) Aorus 17G XB GeForce RTX 2070 Super Max-Q, i7-10875H, Samsung SSD PM981a MZVLB512HBJQ: Ø74.5 (70-80) Even in idle usage, the fans are clearly audible at times with sound pressure levels of up to 39 dB(A). We didn't experience any issues apart from the high DPC latencies. The power consumption in idle usage is a bit too high as well. The battery life tests were performed without the automatic, AI-supported profile option of the Control Center. DisplayPort via USB-C and Power Delivery are supported. The UHD Graphics Xe 750 GPU that's integrated into the processor is active, and the laptop works with Nvidia's Optimus graphics-switching solution. smaller is better The 17.3-incher achieves runtimes of 6:00 hours and 6:10 hours in the Wi-Fi test (accessing websites using a script) and video test (the short film Big Buck Bunny (H.264 encoding, Full HD) running in a loop), respectively. The CPU and GPU can develop their performance uniformly. CDM 5/6 Read Seq Q32T1: 6806 MB/s CDM 5/6 Write Seq Q32T1: 1540 MB/s CDM 5/6 Read 4K Q32T1: 712 MB/s CDM 5/6 Write 4K Q32T1: 661 MB/s CDM 5 Read Seq: 4496 MB/s CDM 5 Write Seq: 2241 MB/s CDM 5/6 Read 4K: 91.3 MB/s CDM 5/6 Write 4K: 227.4 MB/s Sequential Read: 5150MB/s Sequential Write: 3920MB/s Access Time Read: 0.078ms Access Time Write: 0.029ms DiskSpd seq_q8t1_read: 6729MB/s DiskSpd seq_q8t1_write: 4714MB/s DiskSpd seq_read: 3882MB/s DiskSpd seq_write: 3717MB/s DiskSpd 4k_q32t16_read: 3421MB/s DiskSpd 4k_q32t16_write: 3546MB/s DiskSpd 4k_q1t1_read: 59.1MB/s DiskSpd 4k_q1t1_write: 175MB/s DiskSpd Loop seq_q8t1_read: 6694MB/s Aorus 17G YDSamsung PM9A1 MZVL2512HCJQMSI GP76 Leopard 10UGKingston OM8PCP3512F-ABAsus Strix Scar 17 G733QSA-XS992x Samsung PM981a MZVLB1T0HBLR (RAID 0)Lenovo Legion 7 16ACHg6WDC PC SN730 SDBPNTY-1T00Schenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)Samsung SSD 970 EVO Plus 500GBAorus 17G XBSamsung SSD PM981a MZVLB512HBJQAverage Samsung PM9A1 MZVL2512HCJQ Write 4K227.4201 ?(136.9 - 237, n=13) -12% Read 4K91.382.1 ?(47.3 - 92, n=13) -10% Write Seq22413305 ?(1150 - 4216, n=9) 47% Read Seq44963532 ?(1249 - 4560, n=9) -21% Write 4K Q32T1661518 ?(290 - 667, n=13) -22% Read 4K Q32T1712606 ?(293 - 733, n=13) -15% Write Seq Q32T115404009 ?(1148 - 5089, n=13) 160% Read Seq Q32T168065849 ?(1770 - 6838, n=13) -14% Seq Read51504671 ?(2629 - 5546, n=15) -9% Seq Write39203059 ?(1270 - 3920, n=15) -22% 4K Read46.670.4 ?(46.6 - 84.8, n=15) 51% 4K Write145.8177.3 ?(132.8 - 215, n=15) 22% 4K-64 Read20711901 ?(761 - 2783, n=15) -8% 4K-64 Write32672422 ?(1257 - 3480, n=15) -26% Access Time Read *0.0780.04329 ?(0.028 - 0.078, n=14) 44% Access Time Write *0.0290.03547 ?(0.021 - 0.076, n=15) -22% Score Read26332438 ?(1325 - 3224, n=15) -7% Score Write28052838 ?(1567 - 4036, n=15) 1% Score Total77166517 ?(3573 - 8620, n=15) -16% Copy ISO MB/s31902322 ?(1430 - 3190, n=10) -27% Copy Program MB/s987655 ?(335 - 987, n=10) -34% Copy Game MB/s20961461 ?(975 - 2096, n=10) -30%* ... Noise Level Idle 32 / 33 / 39 dB(A)Load 43 / 61 dB(A) 30 dBsilent40 dB(A)audible50 dB(A)loud min: , med: , max: Earthworks M23R, Arta (15 cm distance) environment noise: 25 dB(A) Aorus 17G YDi7-11800H, GeForce RTX 3080 Laptop GPUMSI GP76 Leopard 10UGi7-10750H, GeForce RTX 3070 Laptop GPUAsus Strix Scar 17 G733QSA-XS99R9 5900HX, GeForce RTX 3080 Laptop GPULenovo Legion 7 16ACHg6R9 5900HX, GeForce RTX 3080 Laptop GPUSchenker XMG Neo 17 (Early 2021, RTX 3070, 5800H)R7 5800H, GeForce RTX 3070 Laptop GPUAorus 17G XBi7-10875H, GeForce RTX 2070 Super Max-QAverage of class Gaming off / environment *2525.4 ?(22.9 - 30.7, n=181, last 2 years) -2%Idle Minimum *3227.1 ?(23 - 35, n=181, last 2 years) 15%Idle Average *3328.9 ?(23 - 38, n=181, last 2 years) 12%Idle Maximum *3933.2 ?(23 - 57, n=181, last 2 years) 15%Load Average *4345.1 ?(27.1 - 63, n=181, last 2 years) -5%Witcher 3 ultra *52Load Maximum *6152.9 ?(40 - 66.6, n=182, last 2 years) 13%* ... Heat development is slightly higher when we execute our The Witcher 3 test. We consider values beyond 300 cd/m² to be good. The laptop's power-saving features are disabled during both tests, and the display brightness is set to about 150 cd/m². In total, the laptop has room for two M.2-2280 SSDs (1x PCIe 4.0, 1x PCIe 3.0/SATA). Screen flickering / PWM not detectedIn comparison: 52 % of all tested devices do not use PWM to dim the display. With a TGP of 105 watts (90 watts + 15 watts of Dynamic Boost), Gigabyte remains has opted for the lower range of possibilities in the case of the GeForce RTX 3080 laptop GPU installed here (overview of all RTX 3080 laptops including their TGPs). smaller is better The actual performance of an RTX 3000 graphics core depends on the maximum TGP that the laptop manufacturer has chosen within the limits defined by Nvidia. The RTX 3080 can access fast GDDR6 graphics memory (16 GB). Compared to the automatic profile selection, the differences are small. Processor manufacturer * Intel Processor generation 6th gen Intel® Core™ i7 Processor model * i7-6700 Processor family * Intel® Core™ i7 Processor boost frequency 4 GHz Processor frequency * 3.4 GHz Processor socket LGA 1151 (Socket H4) Processor cache type Smart Cache Processor lithography 14 nm Processor operating modes 64-bit Processor series Intel Core i7-6700 Desktop series Processor codename Skylake Thermal Design Power (TDP) 65 W PCI Express slots version 3.0 Maximum number of PCI Express lanes 16 PCI Express configurations 2x8,1x8+2x4,1x16 Number of processors installed 1 Maximum internal memory supported by processor 64 GB Memory types supported by processor DDR3L-SDRAM,DDR4-SDRAM Memory clock speeds supported by processor 1333,1600,1866,2133 MHz Memory bandwidth supported by processor (max) 34.1 GB/s ECC supported by processor Memory voltage supported by processor 1.35 V Internal memory type DDR3L-SDRAM Maximum internal memory * 16 GB Memory layout (slots x size) 2 x 8 GB Memory clock speed 1600 MHz Memory channels Dual-channel Total storage capacity * 1128 GB Optical drive type * DVD Super Multi DL Number of HDDs installed 1 Number of SSDs installed 1 Compatible memory cards SD Discrete graphics card model * AMD Radeon R9 360 Discrete graphics card memory 2 GB On-board graphics card family Intel® HD Graphics On-board graphics card model * Intel® HD Graphics 530 On-board graphics card base frequency 350 MHz On-board graphics card dynamic frequency (max) 1150 MHz Maximum on-board graphics card memory 1.74 GB Number of displays supported (on-board graphics) 3 On-board graphics card DirectX version 12.0 On-board graphics card OpenGL version 4.4 On-board graphics card ID 1912 Ethernet LAN data rates 10,100,1000 Mbit/s Cabling technology 10/100/1000Base-T(X) Top Wi-Fi standard Wi-Fi 5 (802.11ac) Wi-Fi standards 802.11a,Wi-Fi 5 (802.11ac),802.11b,802.11g,Wi-Fi 4 (802.11n) USB 2.0 ports quantity * 2 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 4 Ethernet LAN (RJ-45) ports 1 ProcessorIntel Core i7-11800H 8 x 2.3 - 4.6 GHz, 109 W PL2 / Short Burst, 45 W PL1 / Sustained, Tiger Lake H45Memory32768 MB , DDR4-3200, dual-channel mode, two memory slots (both in use)Display17.30 inch 16:9, 1920 x 1080 pixel 127 PPI, Sharp LQ173M1JW04, IPS, glossy: no, 300 HzConnections3 USB 3.0 / 3.1 Gen1, 1 USB 3.1 Gen2, 1 Thunderbolt, USB-C Power Delivery (PD), 1 HDMI, 2 DisplayPort, Audio Connections: 1x mic in, 1 headset out, Card Reader: SD, SDHC, SDXC, TPM 2.0NetworkingRealtek RTL8125 2.5GBe Family Ethernet Controller (10/100/1000/2500/5000MBit/s), Intel Wi-Fi 6 AX200 (a/b/g/n = Wi-Fi 4/ac = Wi-Fi 5/ax = Wi-Fi 6), Bluetooth 5.1Sizeheight x width x depth (in mm): 26 x 405 x 276 (= 1.02 x 15.94 x 10.87 in)Battery99 Wh, 6514 mAh Lithium-PolymerOperating SystemMicrosoft Windows 10 Home 64 BitCameraWebcam: HDPrimary Camera: 0.9 MPixAdditional featuresSpeakers: stereo, Keyboard: mechanical keyboard with Omron gaming switch, Keyboard Light: yes, thermal pad, Microsoft 365 (trial), 24 Months WarrantyWeight2.82 kg (= 99.47 oz / 6.22 pounds), Power Supply: 735 g (= 25.93 oz / 1.62 pounds)Note: The manufacturer may use components from different suppliers including display panels, drives or memory sticks with similar specifications. The device shouldn't be placed on the lap in either case. Due to the low TGP, the 17G has to admit defeat to the MSI GP76 Leopard 10UG that is equipped with the nominally weaker GeForce RTX 3070 laptop GPU. [+] Add to comparison Working For Notebookcheck Are you a techie who knows how to write? Find out more about it here. smaller is better A 512 GB NVMe SSD (M.2-2280) from Samsung serves as system drive, and it delivers excellent transfer rates thanks to its PCI Express 4.0 connection. rise ↗ and fall ↘ combined↗ 5.2 ms rise↘ 4 ms fallThe screen shows fast response rates in our tests and should be suited for gaming.In comparison, all tested devices range from 0.8 (minimum) to 240 (maximum) ms. The character is not moved. Nevertheless, the device produces a lot of noise under load - more than many competitors. The preinstalled Aorus Control Center offers the option to specify an energy profile, among other things. frequency)Overall 100 - 16.000 Hz(±) | linearity of overall sound is average (20.3% difference to median)Compared to same class» 73% of all tested devices in this class were better, 7% similar, 19% worse» The best had a delta of 6%, average was 17%, worst was 37%Compared to all devices tested» 50% of all tested devices were better, 9% similar, 41% worse» The best had a delta of 3%, average was 20%, worst was 65%(±) | speaker loudness is average but good (73.7 dB)Bass 100 - 315 Hz(+) | good bass - only 2.1% away from median(±) | linearity of bass is average (7% delta to prev. The GPU can also handle resolutions beyond Full HD (an appropriate monitor would have to be connected for this) - at reduced quality settings in some cases. The hardware provides more than enough computing power for performance-demanding applications like gaming. » 13 % of all devices are better.This means that the measured response time is better than the average of all tested devices (23.5 ms). ↔ Response Time 50% Grey to 80% Grey13.6 ms ... smaller is better Our stress test (Prime95 and FurMark run for at least an hour) is executed by the CPU and GPU at 2.9 GHz and 1,425 MHz, respectively. frequency)Overall 100 - 16.000 Hz(+) | overall sound is linear (7.6% difference to median)Compared to same class» 1% of all tested devices in this class were better, 1% similar, 98% worse» The best had a delta of 6%, average was 17%, worst was 37%Compared to all devices tested» 1% of all tested devices were better, 0% similar, 99% worse» The best had a delta of 3%, average was 20%, worst was 65% We register a maximum power consumption of 38 watts in idle usage - quite a high rate considering that graphics switching is enabled. smaller is better The system runs well and smoothly. For maximum performance, competitors like the Lenovo Legion 7 16ACHg6 or the Alienware m17 R4 are recommended.With the Aorus 17G YD, Gigabyte delivers a well-rounded gaming laptop. The Aorus 17G outdoors Viewing anglesWith the Aorus 17G YD, Gigabyte has a 17.3-inch gaming laptop in its lineup that brings every modern game smoothly onto the screen and also cuts a fine figure in all other application areas. AdobeRGB ↔ Response Time Black to White9.2 ms ... RAM runs in dual-channel mode. As a result, the Control Center chooses the appropriate settings itself. The use of a headset is virtually unavoidable.

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