

# ThinkBook 15 G2 ARE 20VG0007GE

**Product**

ThinkBook 15 G2 ARE

**Region**

WE

**Country/Region**

Germany

**Machine Type**

20VG

**TopSeller**

TopSeller

**Processor**

AMD Ryzen 5 4500U (6C / 6T, 2.3 / 4.0GHz, 3MB L2 / 8MB L3)

**Graphics**

Integrated AMD Radeon Graphics

**Chipset**

AMD SoC Platform

**Memory**

8GB Soldered DDR4-3200 + 8GB SO-DIMM DDR4-3200

**Storage**

512GB SSD M.2 2242 PCIe NVMe 3.0x4 + Empty M.2 2280 PCIe 3.0x2 SSD Slot

**Display**

15.6" FHD (1920x1080) IPS 250nits Anti-glare

**Touchscreen**

None

**Optical**

None

**Media Reader**

4-in-1 Card Reader

**Ethernet**

100/1000M

**WLAN + Bluetooth**

Intel AX200 11ax, 2x2 + BT5.0

**Case Material**

Aluminium (Top), PC / ABS (Bottom)

**Camera**

720p with ThinkShutter

**Microphone**

2x, Array

**Color**

Mineral Grey

**Surface Treatment**

Anodizing Sandblasting

**Keyboard**

Backlit, German

**Fingerprint Reader**

Touch Style

**TPM**

FW TPM 2.0

**Battery**

Integrated 45Wh

**Power Adapter**

65W USB-C

**Operating System**

Windows 10 Pro 64, German

**Bundled Software**

Office Trial

**Base Warranty**

1-year, Depot

**Bundled Service**

None

**EAN / UPC / JAN**

195235498248

**End of Support**

2027-04-21

**Announce Date**

2020-09-21



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AMD

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# ThinkBook 15 G2 ARE Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                 |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-------------|-----------------|-----------------|---------------------|--------------------|-------------|---------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Processor         | AMD Ryzen™ Mobile Processors with Radeon™ Graphics                                                                                                                                                                                                                                                                              |                 |              |             |                 |                 |                     |                    |             |                     | Media reader Ports | 4-in-1 media reader (MMC, SD, SDHC, SDXC)<br>Two USB-C 3.2 Gen 2 (with the function of PD 3.0 and DP 1.4),<br>two USB 3.2 Gen 1 (one Always On), HDMI 1.4b, Ethernet (RJ45),<br>SD card reader, headphone / microphone combo jack, security keyhole<br><i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i> |                                                                                           |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                | # of Cores      | # of Threads | Base Clock  | Max Boost Clock | Cache           | Memory Types        | Processor Graphics | DDR4-3200   | AMD Radeon Graphics |                    | Camera                                                                                                                                                                                                                                                                                                                                                    | HD720p camera with ThinkShutter, fixed focus,<br>integrated dual array digital microphone |
|                   | Ryzen 3 4300U                                                                                                                                                                                                                                                                                                                   | 4               | 4            | 2.7 GHz     | 3.7 GHz         | 2MB L2 / 4MB L3 | AMD Radeon Graphics | Audio support      |             |                     |                    | HD Audio, Realtek ALC3287 codec, stereo speakers, 2W x 2,<br>Dolby Audio™, dual array digital microphone                                                                                                                                                                                                                                                  |                                                                                           |
|                   | Ryzen 5 4500U                                                                                                                                                                                                                                                                                                                   | 6               | 6            | 2.3 GHz     | 4.0 GHz         | 3MB L2 / 8MB L3 |                     | Keyboard Touchpad  |             |                     |                    | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight<br>Buttonless Mylar surface touchpad, multi-touch, supports Precision TouchPad                                                                                                                                                                                         |                                                                                           |
|                   | Ryzen 5 4600U                                                                                                                                                                                                                                                                                                                   | 6               | 12           | 2.1 GHz     | 4.0 GHz         | 3MB L2 / 8MB L3 |                     | Security           |             |                     |                    | Power-on password, hard disk password, supervisor password,<br>Kensington lock slot                                                                                                                                                                                                                                                                       |                                                                                           |
|                   | Ryzen 7 4700U                                                                                                                                                                                                                                                                                                                   | 8               | 8            | 2.0 GHz     | 4.1 GHz         | 4MB L2 / 8MB L3 |                     | Security chip      |             |                     |                    | Firmware TPM 2.0 integrated in chipset                                                                                                                                                                                                                                                                                                                    |                                                                                           |
|                   | Ryzen 7 4800U                                                                                                                                                                                                                                                                                                                   | 8               | 16           | 1.8 GHz     | 4.2 GHz         | 4MB L2 / 8MB L3 |                     | Fingerprint reader |             |                     |                    | Touch style fingerprint reader on smart power button                                                                                                                                                                                                                                                                                                      |                                                                                           |
| Graphics          | AMD Radeon Graphics in processor;<br>supports up to 3 independent displays via native display and two external monitors;<br>supports external monitors via HDMI (up to 3840x2160@30Hz) or<br>USB Type-C (up to 5120x2880@60Hz)                                                                                                  |                 |              |             |                 |                 |                     |                    |             |                     | Battery            | Integrated Li-Polymer 45Wh or 60Wh battery,<br>45Wh battery supports Rapid Charge Pro (charge up to 50% in 30min)<br>60Wh battery supports Rapid Charge (charge up to 80% in 1hr)<br><i>(60Wh battery is not available for models with HDD bay)</i>                                                                                                       |                                                                                           |
| Chipset           | AMD SoC (System on Chip) platform                                                                                                                                                                                                                                                                                               |                 |              |             |                 |                 |                     |                    |             |                     | Max battery life   | MobileMark® 2018: 7.5 hr (45Wh) or 10 hr (60Wh)<br><i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>                                                                                                                                                                                          |                                                                                           |
| Memory            | 40GB max / 3200MHz DDR4, dual-channel capable<br>4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM slot                                                                                                                                                                                                               |                 |              |             |                 |                 |                     |                    |             |                     | AC adapter         | 65W USB-C AC adapter or 65W USB-C mini wall-mount AC adapter<br><i>(65W USB-C mini wall-mount AC adapter is only available in selected countries)</i>                                                                                                                                                                                                     |                                                                                           |
| Display           | Size                                                                                                                                                                                                                                                                                                                            | Resolution      | Surface      | Touch       | Type            | Brightness      | Aspect Ratio        | Contrast Ratio     | Color Gamut | Viewing Angle       | Preload (optional) | Preloaded operating system                                                                                                                                                                                                                                                                                                                                |                                                                                           |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) | Anti-glare   | -           | TN              | 220 nits        | 16:9                | 500:1              | 45% NTSC    | 90°                 |                    | • Windows® 10 Home 64<br>• Windows 10 Pro 64                                                                                                                                                                                                                                                                                                              |                                                                                           |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) | Anti-glare   | -           | IPS             | 250 nits        | 16:9                | 700:1              | 45% NTSC    | 170°                |                    | Preloaded applications (only some listed)                                                                                                                                                                                                                                                                                                                 |                                                                                           |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) | Anti-glare   | -           | IPS             | 300 nits        | 16:9                | 1200:1             | 100% sRGB   | 170°                |                    | • Microsoft® 365 Personal<br>• Microsoft 365 Family                                                                                                                                                                                                                                                                                                       |                                                                                           |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) | Anti-glare   | Multi-touch | IPS             | 300 nits        | 16:9                | 800:1              | 45% NTSC    | 170°                |                    | • Microsoft Office Home and Business 2019<br>• Microsoft Office Home and Student 2019<br>• Microsoft Office Professional 2019<br>• Microsoft Office Personal 2019<br>• Microsoft Office Trial (with 30-day license)                                                                                                                                       |                                                                                           |
| Multi-touch(opt)  | Capacitive-type on-cell multi-touch, supports 10 fingers gesture                                                                                                                                                                                                                                                                |                 |              |             |                 |                 |                     |                    |             |                     | Limited warranty   | One of the following, configurable by model:<br>• 1-year depot repair service<br>• 1-year with 2-year system board repair service<br>• 2-year/1-yr battery depot repair service                                                                                                                                                                           |                                                                                           |
| Storage           | System supports one M.2 2280 PCIe 4.0x4 SSD slot and one HDD bay or one M.2 2280 PCIe 4.0x4 SSD slot and one M.2 2280 PCIe 3.0x2 SSD slot, depends on model configuration:<br>• HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high<br>• M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2 or PCIe 3.0 x 4<br>• M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 |                 |              |             |                 |                 |                     |                    |             |                     | Mil-Spec test      | Work in progress                                                                                                                                                                                                                                                                                                                                          |                                                                                           |
| Optical           | None                                                                                                                                                                                                                                                                                                                            |                 |              |             |                 |                 |                     |                    |             |                     | Environment        | ENERGY STAR® 8.0; ErP lot3, TUV Low Blue Light certified (IPS display only),<br>RoHS-compliant                                                                                                                                                                                                                                                            |                                                                                           |
| Ethernet          | Gigabit Ethernet connection                                                                                                                                                                                                                                                                                                     |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
| WLAN + Bluetooth™ | One of the following, configurable by model:<br>• 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card<br>• Intel® Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0, M.2 card                                                                                                                                                          |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
| Dimensions        | WxDxH: 14.1" x 9.25" x 0.74"; 357mm x 235mm x 18.9mm                                                                                                                                                                                                                                                                            |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
| Weight            | Starting at 3.75 lbs / 1.7 kg                                                                                                                                                                                                                                                                                                   |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
| Case color        | Mineral grey, dual tone design                                                                                                                                                                                                                                                                                                  |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
| Case material     | Top cover: Aluminum<br>Bottom: PC/ABS plastic                                                                                                                                                                                                                                                                                   |                 |              |             |                 |                 |                     |                    |             |                     |                    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |

The specifications above may not be available in all regions and might change by regions

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