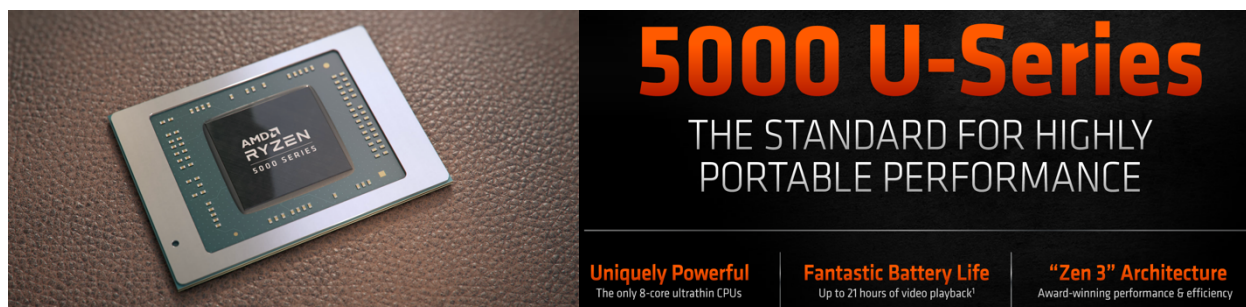# GIGABYTE Unveils All New 2021 AMD Ryzen™ 5000U Series BRIX Mini-PC



May 31, 2021 – GIGABYTE Technology, (TWSE: 2376), a leading manufacturer of motherboards, graphics cards, and hardware solutions, today announced the all-new 2021 BRIX mini-PC series, which adopts the latest AMD Ryzen™ 5000U mobile processors that have leading 7nm technology, 8 cores/16 threads CPU architecture, low 15W TDP, and reduced power consumption compared to the previous generation. Benefiting from AMD's premium "Zen 3" core architecture and "Vega" GPU cores, these processors boost the performance significantly in CPU and GPU related workloads. Enhanced by GIGABYTE's exclusive design, the all-new 2021 BRIX mini-PC design integrates 4 display outputs, 2.5G Ethernet, and 802.11ax WiFi 6E configuration, creating the most powerful multitasking mini-PC with astounding performance and responsiveness for either gaming or content creation.



**AMD Ryzen™ 5000U mobile processors**

The latest AMD Ryzen 5000U mobile processors highlight 7nm technology, and when compared to the previous generation, these new processors feature a 16% increase in single-threaded performance, 14% increase in multi-threaded performance, and do so with higher clock frequencies and lower SoC power consumption. The powerful performance of AMD Ryzen 5000U mobile processors sets a milestone for the mobile platform. When it comes to benchmark testing, it is

inspiring to see that 3DMark CPU Performance scores come in at 1.23x that of competitor's 11th Gen processors and 1.8x on Cinebench R20 benchmark too. No more needing to compromise between productivity, performance, and gaming/video performance.

AMD Ryzen 5000U mobile processors with Zen3 cores also take gaming performance and multimedia processing to a new level with up to 2.048 TFLOPS computing performance. Featuring outstanding graphics performance and DDR4 memory speeds up to 3200MHz, AMD Ryzen 5000U mobile processors boost processing performance with optimized power efficiency for all-purpose usage on gaming, daily tasks, and entertainment.

**Tall Version**

**Slim Version**

**Compact Size, Full Functionality**

GIGABYTE's R&D team efforts allow GIGABYTE's latest AMD Ryzen™ 5000U BRIX mini-PC series to integrate comprehensive functions within its compact size (44 x 134 x139 mm). The 2.5G Ethernet design paired with 802.11ax WiFi 6E configuration reduces the risk of disconnections while increasing the flexibility of the network. The integrated TPM IC can provide hardware-level information security and system protection by avoiding data leak from decryption.

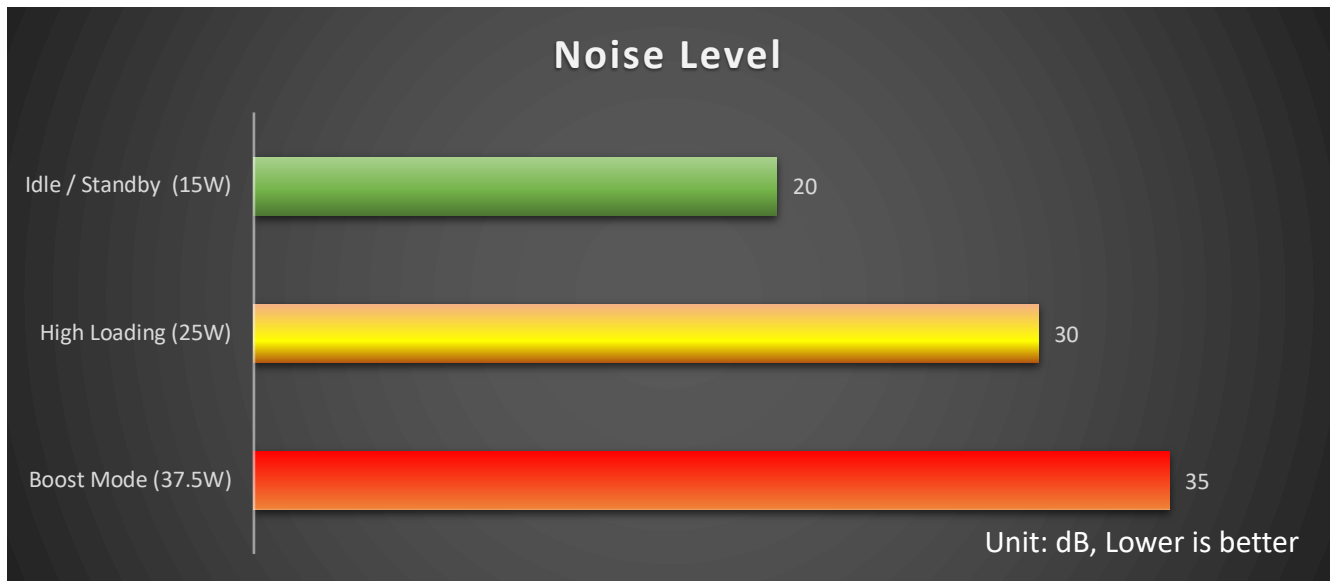**Expanding the capability for unlimited possibilities**

GIGABYTE's latest BRIX mini-PC provides two types of versions, which are the Slim version and the Tall version. The Tall version is for enabling additional storage capacity that allows users to install 2.5" SSD/HDD. Also, the new upgrade kits have two new options. Options included: (1) I/O expander for adding 2nd LAN and a RS232 communication port (2) Storage expander: Adding 2 more 2280 M.2 SSDs to make BRIX run with 3 SSDs. It hugely increases the flexibility and functionality to adapt to

various applications. Combined with different I/O outputs, the mini size BRIX systems offer unlimited possibilities. Bundled with a VESA bracket, the GIGABYTE's latest BRIX mini-PC can easily be mounted behind a monitor, fulfilling various applications in different fields of industry, commerce, or education.



**Native 4 x 4K Display Output**

Enhanced by the latest 7nm Vega graphics cores, GIGABYTE's latest AMD Ryzen 5000U BRIX mini-PC boosts a 24% improvement on graphics performance compared to the previous generation, as well as 1.3x better performance than the competition. The new BRIX mini-PC natively supports four 4K/60P display outputs via 2 x HDMI, 1 x USB-C DisplayPort, and 1 x mini-DP for the best in monitor compatibility. This ensures users can easily connect outputs with greater monitor flexibility and more effortless operation. Users can allocate monitors for multitasking according to their different usage without needing multiple machines. It is even possible to assemble monitors for ultra-wide screens used in digital signage, which makes BRIX the supreme choice for high-performance PC and multimedia systems.

## Noise Level

| | |
|---|---|
| Idle / Standby (15W) | 20 |
| High Loading (25W) | 30 |
| Boost Mode (37.5W) | 35 |

Unit: dB, Lower is better

**Super Quiet**

The all-new 2021 GIGABYTE BRIX with AMD Ryzen 5000U has more to be discovered. In the development stage, the foresight was not only to unleash performance, but also to do so while operating cool and quiet. After precision thermal, firmware, hardware design, and tests were conducted, the all-new 2021 BRIX became one of the highest BRIX performers and yet the quietest.

When in the GIGABYTE Audio Lab, this all new 2021 BRIX runs at an almost undetectable sound level below 20dB, and that low noise level is maintained even when running heavy workloads where the sound level is still under 30dB. Moreover, when bleeding edge performance is needed, the AMD Ryzen 5000U enables boost mode with a TDP up to 37.5W, and still the noise level tops out at 35dB.

GIGABYTE's latest AMD Ryzen 5000U BRIX mini-PC also inherits GIGABYTE exclusive Ultra Durable technology and passes strict verifications that provide users with the best integration of ultimate performance, quality, and multi-functionality. This all new 2021 BRIX will be available in Q3 2021.

For more details, visit: https://www.gigabyte.com/Mini-PcBarebone/BRIX

For more information and news on GIGABYTE products, please visit: http://www.gigabyte.com

**About GIGABYTE**

GIGABYTE is an engineer, visionary, and leader in the world of tech that uses its hardware expertise, patented innovations, and industry leadership to create, inspire, and advance. Renowned for over 30 years of award-winning excellence, GIGABYTE is a cornerstone in the HPC community, providing businesses with server and data center expertise to accelerate their success. At the forefront of evolving technology,

GIGABYTE is devoted to invent smart solutions that enable digitalization from edge to cloud, and allow customers to capture, analyze, and transform digital information into economic data that can benefit humanity and "Upgrade Your Life". Please visit https://www.gigabyte.com/ for more information.