

AMD SOCKET AM5 MOTHERBOARDS

QUICK REFERENCE GUIDE



The next frontier of AMD RYZEN™ motherboards. Enabling PCIe® 5.0 for everyone.

INFRASTRUCTURE

- 1718-pin LGA socket for easier installation
- Native support for up to 230W TDP processors
- DDR5 and PCIe® 5.0 support
- Socket AM4 cooler compatibility








ADVANCED CONNECTIVITY

- Total platform I/O includes up to 24 usable PCIe® 5.0 lanes for storage and graphics
- Up to 12 SuperSpeed USB connections with 20Gbps and Type-C™ included (USB 4.0 available on X870E / X870)
- 6E WiFi® Support
- AMD Expo™ technology

AM5 ECOSYSTEM SOLUTIONS

- NEW X870E and X870 motherboards with USB 4.0 support
- X670E and X670 with PCIe® 5.0 and processor and memory overclocking
- B650E and B650 with processor and memory overclocking
- A620 with memory overclocking only

CHIPSET SPECIFICATIONS

CHIPSET MODEL		Direct Processor PCIe® Lanes		USABLE PCIe® LANES TOTAL/PCIe® 5.0 (UP TO)	Chipset-Provided USB and SATA						
		GRAPHICS	NVME (+PCIe® GPP) (UP TO)		AMD RYZEN™ PROCESSOR OVERCLOCKING ENABLED	DDR5 MEMORY OVERCLOCKING ENABLED (SUPPORTS AMD EXPO™)	USB 20GBPS (UP TO)	USB 10GBPS (UP TO)	USB 5GBPS (UP TO)	MAXIMUM SATA PORTS (OR PCIe® 3.0) (UP TO)	NEW USB4®
NEW	 X870E	1x16 or 2x8 PCIe® 5.0	1x4 PCIe® 5.0 + 4x PCIe® GPP	44 / 24	Yes	Yes	2	12	-	8	Yes
NEW	 X870	1x16 or 2x8 PCIe® 5.0	1x4 PCIe® 5.0 + 4x PCIe® GPP	36 / 24	Yes	Yes	1	6	-	4	Yes
	 X670E	1x16 or 2x8 PCIe® 5.0	1x4 PCIe® 5.0 + 4x PCIe® GPP	44 / 24	Yes	Yes	2	12	-	8	-
	 X670	1x16 or 2x8 PCIe® 4.0	1x4 PCIe® 5.0 + 4x PCIe® GPP	44 / 8	Yes	Yes	2	12	-	8	-
	 B650E	1x16 or 2x8 PCIe® 5.0	1x4 PCIe® 5.0 + 4x PCIe® GPP	36 / 24	Yes	Yes	1	6	-	4	-
	 B650	1x16 or 2x8 PCIe® 4.0	1x4 PCIe® 4.0 (PCIe® 5.0 optional)	36 / 0	Yes	Yes	1	6	-	4	-
	 A620	1x16 PCIe® 4.0	1x4 PCIe® 4.0	32 / 0	No	Yes	-	2	4	4	-

AMD SOCKET AM5 MOTHERBOARD CHIPSET SOLUTIONS

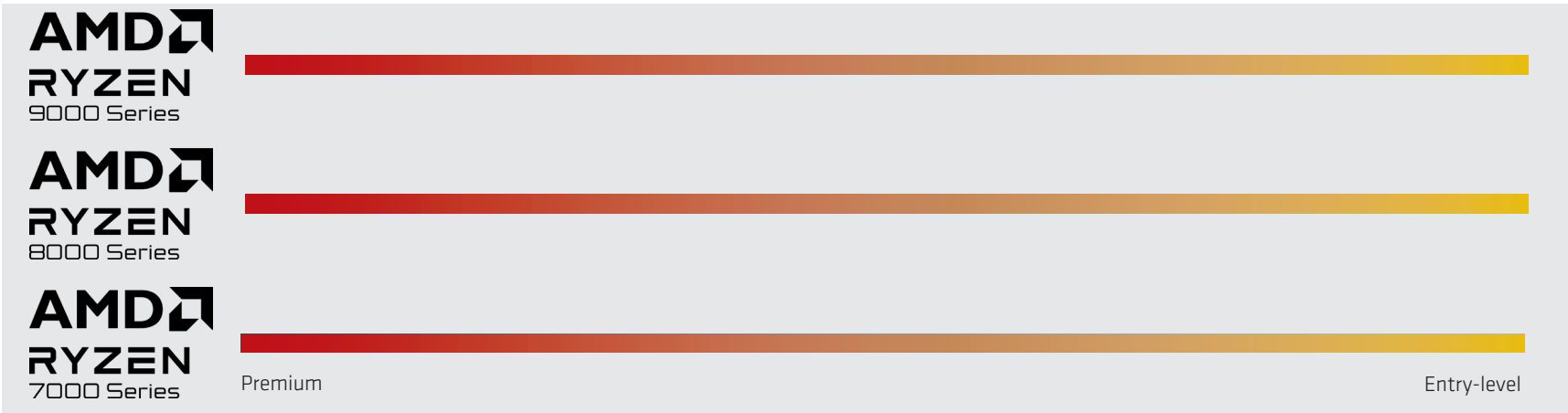
NEW

X870/E

X670/E

B650/E

A620



NEXT STEPS

Find out more by visiting www.amd.com/RYZEN
For more AMD product training, sign up at arena.amd.com and earn rewards!

ENDNOTES

1. The information contained herein is for informational purposes only, and is subject to change without notice. Timelines, roadmaps, and/or product release dates shown in these slides are plans only and subject to change. "Zen 5" is a codename for AMD architecture, and is not a product name. GD-122
2. Overclocking and/or undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking and/or undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106
3. AMD's product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware and/or software. GD-26