

DDR4 UDIMM Maximum Frequency Support

A-Series APUs:

UDIMM Memory Slot				Frequency
A1	A2	B1	B2	(Mhz)
-	SR	-	-	2400
-	DR	-	-	2400
-	SR	-	SR	2400
-	DR	-	DR	2133
SR	SR	SR	SR	1866
SR/DR	DR	SR/DR	DR	1866

Ryzen CPUs:

UDIMM Memory Slot				Frequency
A1	A2	B1	B2	(Mhz)
-	SR	-	-	2667
-	DR	-	-	2667
-	SR	-	SR	2667
-	DR	-	DR	2400-2667
SR	SR	SR	SR	2133-2400
SR/DR	DR	SR/DR	DR	1866-2133

SR: Single rank DIMM, 1Rx4 or 1Rx8 on DIMM module label

DR: Dual rank DIMM, 2Rx4 or 2Rx8 on DIMM module label

CPU

- Supports AMD Socket AM4 A-Series APUs (Bristol Ridge) and Ryzen CPUs (Summit Ridge)
- Digi Power design
- 9 Power Phase design
- Supports 95W Air Cooling

Memory

- Dual Channel DDR4 Memory Technology
- 4 x DDR4 DIMM Slots
- AMD Ryzen series CPUs support DDR4 3200+(OC)/2933 (OC)/2667/2400/2133 ECC & non-ECC, un-buffered memory*
- AMD 7th Gen A-Series APUs support DDR4 2400/2133 ECC & non-ECC, un-buffered memory*

* Please refer to Memory Support List on ASRock's website for more information. (<http://www.asrock.com/>)

* Please refer to page 22 for DDR4 UDIMM maximum frequency support.

- Max. capacity of system memory: 64GB
- 15 μ Gold Contact in DIMM Slots

Expansion Slot

AMD Ryzen series CPUs

- 2 x PCI Express 3.0 x16 Slots (single at x16 (PCIE2); dual at x16 (PCIE2) / x4 (PCIE4))*

AMD 7th A-Series APUs

- 2 x PCI Express 3.0 x16 Slots (single at x8 (PCIE2); dual at x8 (PCIE2) / x2 (PCIE4))*

* Supports NVMe SSD as boot disks

* If M2_1 is occupied, PCIE4 will be disabled.

- 4 x PCI Express 2.0 x1 Slots
- Supports AMD Quad CrossFireX™ and CrossFireX™**

** This feature is only supported with Ryzen Series CPUs (Summit Ridge).

Storage

- 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug*
- 2 x SATA3 6.0 Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug

* M2_2 and SATA3_3 share lanes. If either one of them is in use, the other one will be disabled.

- 1 x Ultra M.2 Socket (M2_1), supports type 2242/2260/2280 M.2 PCI Express module up to Gen3 x4 (32 Gb/s) (with Ryzen CPU) or Gen3 x2 (16 Gb/s) (with A-Series APU)**
- 1 x M.2 Socket (M2_2), supports type 2230/2242/2260/2280/22110 M.2 SATA3 6.0 Gb/s module**

** If M2_1 is occupied, PCIE4 will be disabled.

** Supports NVMe SSD as boot disks

** Supports ASRock U.2 Kit