

## **PRODUCT BRIEF:**

- · Supports 13<sup>th</sup> Gen & 12<sup>th</sup> Gen Intel® Core™ Processors (LGA1700)
- · 14+1+1 Power Phase, SPS for VCore+GT with Enlarged Heatsink Armor
- · Supports DDR5 7200MHz (OC)
- · 1 PCle 5.0 x16, 2 PCle 4.0 x16, 1 PCle 3.0 x1, 1 M.2 Key E
- · Graphics Output Options: HDMI, DisplayPort, eDP
- · Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 4 SATA3, 1 Blazing M.2 (PCle Gen5x4)
   4 Hyper M.2 (PCle Gen4x4)
- 1 USB 3.2 Gen2x2 FrontType-C
  2 USB 3.2 Gen2 RearType-C
  2 USB 3.2 Gen2 RearType-A
  8 USB 3.2 Gen1 (4 Rear, 4 Front)
  10 USB 2.0 (6 Rear, 4 Front)
- · Dragon 2.5G LAN
- Supports ASRock Auto Driver Installer,
   Lightning Gaming Ports, Ultra USB Power



I/O OVERVIEW



BLAZING M.2 [PCIE GENSH4]



PCIE GENS FOR GRAPHICS



DDR5 [MAX. 1286B CAPACITY]



DUAL PCIE 84 SLOTS



THUNDERBOLT4 HEADER



USB TYPE-C [1 FRONT + 2 REAR]





Offers 20% longer lifespans and provide more stability and reliability.



## 2790 LiveMixer /SRock



## Detail Specification

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Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - 2oz Copper PCB	Rear Panel I/O	- 2 x Antenna Mounting Points - 1 x HDMI Port - 1 x DisplayPort 1.4
Unique Feature	Superb Productivity  PCIe Gen5 (Graphics, M.2)  Dual Channel DDR5  Rock-Solid Durability  14+1+1 Power Phase, 60A SPS for VCore+GT with Enlarged Heatsink Armor  Flexible Integrated I/O Shield  Nichicon 12K Black Caps (100% Japan made high quality conductive polymer capacitors) for VCore  Ultrafast Connectivity  2.5G LAN  ASRock Lightning Gaming Ports		- 1 x Optical SPDIF Out Port - 2 x USB 3.2 Gen2 Type-A Ports (10 Gb/s) - 2 x USB 3.2 Gen2 Type-C Ports (10 Gb/s) - 4 x USB 3.2 Gen1 Ports (USB32_23 are Lightning Gaming Ports. USB32_45 support Ultra USB Power.) - 6 x USB 2.0 Ports - 1 x RJ-45 LAN Port - 1 x Line Out Jack (Gold Audio Jack) - 1 x Microphone Input Jack (Gold Audio Jack)
	EZ Update - ASRock Auto Driver Installer EZ Troubleshooter - ASRock Post Status Checker	Storage	CPU:  -1 x Blazing M.2 Socket (M2_1, Key M), supports type 2260/2280 PCIe Gen5x4 (128 Gb/s) mode*  -1 x Hyper M.2 Socket (M2_2, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode* Chipset:  -1 x Hyper M.2 Socket (M2_3, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode*
CPU	- Supports 13 <sup>th</sup> Gen & 12 <sup>th</sup> Gen Intel <sup>®</sup> Core <sup>™</sup> Processors (LGA1700) - Supports Intel <sup>®</sup> Hybrid Technology - Supports Intel <sup>®</sup> Turbo Boost Max 3.0 Technology - Supports Intel <sup>®</sup> Thermal Velocity Boost (TVB) - Supports Intel <sup>®</sup> Adaptive Boost Technology (ABT)		- 1 x Hyper M.2 Socket (M2_4, Key M), supports type 2242/2260/2280 PCle Gen4x4 (64 Gb/s) mode* - 1 x Hyper M.2 Socket (M2_5, Key M), supports type 2260/2280 PCle Gen4x4 (64 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors  * Supports Intel® Volume Management Device (VMD)
Chipset	- Intel® Z790		* Supports NVMe SSD as boot disks * If M2_1 is occupied, PCIE1 will downgrade to x8 mode. * Either M2_1 or M2_2 can be used at a time.
Memory	- Dual Channel DDR5 Memory Technology - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 7200+(OC)* 1DPC 1R Up to 7200+ MHz (OC), 4800 MHz Natively. 1DPC 2R Up to 6000+ MHz (OC), 4400 MHz Natively. 2DPC 1R Up to 5600+ MHz (OC), 4000 MHz Natively.	RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 5 for M.2 NVMe storage devices
	2DPC 2R Up to 4800+ MHz (OC), 3600 MHz Natively.  - Max. capacity of system memory: 192GB  - Supports Intel® Extreme Memory Profile (XMP) 3.0  * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	Connector	- 1 x eDP Signal Connector - 1 x SPI TPM Header - 1 x Power LED and Speaker Header - 1 x RGB LED Header* - 3 x Addressable LED Headers** - 1 x CPU Fan Connector (4-pin)***
Expansion Slot	CPU:  -1 x PCle 5.0 x16 Slot (PCIE1), supports x16 mode* Chipset:  -2 x PCle 4.0 x16 Slots (PCIE3 and PCIE4), support x4 mode* -1 x PCle 3.0 x1 Slot (PCIE2)*  -1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCle WiFi module and Intel® CNVio/CNVio2 (Integrated WiFi/BT)  * If M2_1 is occupied, PCIE1 will downgrade to x8 mode.  * Supports NVMe SSD as boot disks - Supports AMD CrossFire™		- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)**** - 5 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)***** - 1 x 24 pin ATX Power Connector (Hi-Density Power Connector) - 2 x 8 pin 12V Power Connectors (Hi-Density Power Connector) - 1 x Front Panel Audio Connector - 1 x Thunderbolt AIC Connector (5-pin) (Supports ASRock Thunderbolt 4 AIC Card) - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports) - 1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s) * Supports in total up to 12V/3A, 36W LED Strip *** Support in total up to 5V/3A, 15W LED Strip *** CPU_FAN1 supports the fan power up to 1A (12W).
Graphics	* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated Intel® X® Graphics Architecture (Gen 12) - 1 x eDP 1.4, supports max. resolution up to Full HD 60Hz - 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K		**** CPU_FAN2/WP supports the fan power up to 2A (24W).  ***** CHA_FAN1~5/WP support the fan power up to 2A (24W).  ***** CPU_FAN2/WP and CHA_FAN1~5/WP can auto detect if 3-pin or 4-pin fan is in use.
	60Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz	BIOS Feature	- 128Mb AMI UEFI Legal BIOS with GUI support
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio	Software and UEFI	Software  - ASRock Motherboard Utility (A-Tuning)  - ASRock Dragon 2.5G LAN Software  - ASRock Polychrome SYNC  * These utilities can be downloaded from ASRock Live Update & APP Shop.
LAN	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Dragon RTL8125BG - Supports Dragon 2.5G LAN Software - Smart Auto Adjust Bandwidth Control - Visual User Friendly UI - Visual Network Usage Statistics - Optimized Default Setting for Game, Browser, and Streaming Modes - User Customized Priority Control		UEFI - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash - ASRock Easy RAID Installer
		OS	- Microsoft® Windows® 10 64-bit / 11 64-bit
USB	- 1 x USB 3.2 Gen2x2 Type-C (Front) - 2 x USB 3.2 Gen2 Type-C (Rear) - 2 x USB 3.2 Gen2 Type-A (Rear) - 8 x USB 3.2 Gen1 (4 Rear, 4 Front) - 10 x USB 2.0 (6 Rear, 4 Front)	Certifications	- FCC. CE - ErP/EuP ready (ErP/EuP ready power supply is required) - CEC Tier II ready
	* All USB ports support ESD Protection	Accessories	- 1 x User Manual - 2 x SATA Data Cables - 5 x Screws for M.2 Sockets