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X670E PG LIGHTWING



POLYCHROME S Y N C

PRODUCT BRIEF:

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
- · 14+2+1 Phase SPS Power Design
- · 4 x DDR5 DIMMs, supports up to 6600+(OC)
- · 1 PCle 5.0 x16, 1 PCle 4.0 x16,
- 1 PCle 4.0 x16 , 1 PCle 4.0 x1 , 1 M.2 Key-E for WiFi
- · Graphics Output Options: 1 HDMI, 1 DisplayPort
- 7.1 CH HD Audio (Realtek ALC897 Audio Codec), Nahimic Audio
- · 1 Blazing M.2 (PCle Gen5x4),
- 1 Hyper M.2 (PCle Gen4x4),
- 1 Ultra M.2 (PCle Gen3x4 & SATA3),
- 1 M.2 (PCle Gen4x2),
- 4 SATA3

- 1 USB 3.2 Gen2 Type-A (Rear),
 10 USB 3.2 Gen1 (6 Rear, 4 Front),
 8 USB 2.0 (4 Rear, 4 Front)
- · Realtek 2.5G LAN

I/O OVERVIEW



14 + 2 + 1 Power Phase SPS

Delivering smoother and neater power to the CPU.

Optimized Performance with 8-Layer PCB

8-layer PCB provides better signal and thermal performance for insane AMD Socket AM5 Ryzen™ 7000 series processors.



PCIe Gen5 Technology PCIe x16 slot & M.2 Sockets

Ready to unleash the full potential of future high end graphics cards and ultra fast SSDs.





Pre-Installed I/O Shield Lightning Gaming Ports



Dragon 2.5Gbps LAN

Enjoy the faster connectivity experience for gaming, file transfers and backups.







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Detail Specification			
Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - 8 Layer PCB		- 2 x Antenna Mounting Points - 1 x HDMI Port - 1 x DisplayPort 1.4
Unique Feature	Superb Productivity PCle Gen5 (Graphics, M.2) Dual Channel DDR5 Rock-Solid Durability Server-Grade Low-Loss PCB 14+2+1 Power Phase, 70A SPS Pre-Installed I/O Shield Ultrafast Connectivity 2.5G LAN ASRock Lightning Gaming Ports		- 1 x USB 3.2 Gen2x2 Type-C Port (20 Gb/s) - 1 x USB 3.2 Gen2x Type-A Port (10 Gb/s) - 6 x USB 3.2 Gen1 Ports (USB32_34 are Lightning Gaming Ports) - 4 x USB 2.0 Ports - 1 x RJ-45 LAN Port - 1 x BIOS Flashback Button - HD Audio Jacks: Line in / Front Speaker / Microphone
	EZ Update - BIOS Flashback Button - ASRock Auto Driver Installer	Storage	CPU: -1 x Blazing M.2 Socket (M2_1, Key M), supports type 2280 PCle Gen5x4 (128 Gb/s) mode* Chipset: -1 x Ultra M.2 Socket (M2_2, Key M), supports type 2280 SATA3 6.0 Gb/s & PCle Gen3x4 (32 Gb/s) modes* -1 x M.2 Socket (M2_3, Key M), supports type 2280 PCle Gen4x2 (32 Gb/s) mode* -1 x Hyper M.2 Socket (M2_4, Key M), supports type 2260/2280 PCle Gen4x4 (64 Gb/s)
СРИ	- Supports AMD Socket AM5 Ryzen [™] 7000 Series Processors		mode* - 4 x SATA3 6.0 Gb/s Connectors
Chipset	- AMD X670		* Supports NVMe SSD as boot disks * Supports ASRock U.2 Kit
Memory	- Dual Channel DDR5 Memory Technology - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 6600+(OC)* - Max. capacity of system memory: 128GB - Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	RAID	- Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices
	(* • • • • • • • • • • • • • • • • • • •	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 CPI LETA Connector (4 pin)***
Expansion Slot	CPU: -1 x PCle 5.0 x16 Slot (PCIE1), supports x16 mode* -1 x PCle 4.0 x16 Slot (PCIE3), supports x4 mode* Chipset: -1 x PCle 4.0 x1 Slot (PCIE2)* -1 x PCle 4.0 x1 Slot (PCIE4), supports x1 mode* -1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCle WiFi module		- 1 x CPU Fan Connector (4-pin)*** - 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)**** - 4 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)**** - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector (Hi-Density Power Connector) - 1 x 4 pin 12V Power Connector (Hi-Density Power Connector) - 1 x Front Panel Audio Connector - 1 x Thunderbolt AIC Connector (5-pin) (Supports ASRock Thunderbolt 4 AIC Card)
	* Supports NVMe SSD as boot disks - Supports AMD CrossFire™ - 15μ Gold Contact in VGA PCIe Slot (PCIE1)		- 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) (ReDriver) * 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). **** CPU_FAN2/WP supports the fan power up to 2A (24W).
Graphics	Integrated AMD RDNATM 2 graphics (Actual support may vary by CPU) -1 x HDMI 2.1 TMDS Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 60Hz -1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 4K 120Hz		***** CPU_FAN2/WP and CHA_FAN1~4/WP can auto detect if 3-pin or 4-pin fan is in use.
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)	BIOS Feature	- 256Mb AMI UEFI Legal BIOS with GUI support
	- Nahimic Audio	Software and UEFI	Software - ASRock Motherboard Utility (Phantom Gaming Tuning) - ASRock Phantom Gaming LAN Software - ASRock Polychrome SYNC
LAN	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Dragon RTL8125BG - Supports Phantom Gaming 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		* These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI - ASRock Full HD UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
USB	-2 x USB 3.2 Gen2x2 Type-C (1 Rear, 1 Front)	OS	- Microsoft® Windows® 11 64-bit
	- 1 x USB 3.2 Gen2 Type-A (Rear) - 10 x USB 3.2 Gen1 (6 Rear, 4 Front) - 8 x USB 2.0 (4 Rear, 4 Front) * All USB ports support ESD Protection	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
		Accessories	- 1 x User Manual - 2 x SATA Data Cables - 4 x Screws for M.2 Sockets - 1 x Standoff for M.2 Socket