ASRock PRO
PRO SERIES

A620M PRO RS
WiFi

AMD SOCKET AM5 | A620 · AMD RYZEN · WiFi 6E · DDR5 · POLYCHROME SYNC · HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

PRODUCT BRIEF :

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
- 6+2+1 Power Phase, Dr.MOS
- Supports DDR5 6000+ MHz (OC)
- 1 PCIe 4.0 x16
- Integrated AMD RDNA™ 2 Graphics *1
- Graphics Output Options: HDMI, DisplayPort

- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 4 SATA3, 2 Hyper M.2 (PCIe Gen4x4) , 1 M.2 (PCIe Gen3x2)
- 2 USB 3.2 Gen1 Type-C (1 Rear, 1 Front), 5 USB 3.2 Gen1 Type-A (3 Rear, 2 Front)
- Realtek Gigabit LAN 802.11ax Wi-Fi 6E + Bluetooth

- Supports ASRock Auto Driver Installer, BIOS Flashback

*1 Actual support may vary by CPU

I/O OVERVIEW

DR. MOS
Intelligently delivering higher current for each phase, thus providing improved thermal result and superior performance.

DELUXE M.2 OPTIONS
Multiple M.2 slots for SSD giving fast and ample storage solution.

USB 3.2 TYPE-C (FRONT + REAR)
Providing a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.

WiFi 6E (802.11ax)
Better and faster internet traffic with lower latency!

* The availability of Wi-Fi 6E (6GHz) may vary between different countries.

Wi-Fi 6E only

AUTO DRIVER INSTALLER
The LAN driver has already prepacked in BIOS ROM, simply follow the instructions and install all necessary drivers automatically right after installing the operation system!

PRE-INSTALLED I/O SHIELD
ASRock pre-installs the I/O shield for you as an assembly helper to speed up the set-up process.

Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm
Unique Feature	Superb Productivity 　- Dual Channel DDR5 Rock-Solid Durability 　- 6+2+1 Power Phase, 50A Dr.MOS 　- Pre-Installed I/O Shield Ultrafast Connectivity 　- 802.11ax Wi-Fi 6E Module EZ Update 　- BIOS Flashback Button 　- ASRock Auto Driver Installer EZ Troubleshooter 　- ASRock Post Status Checker
CPU	- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
Chipset	- AMD A620
Memory	- Dual Channel DDR5 Memory Technology - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 6000+(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/)
Expansion Slot	CPU: - 1 x PCIe 4.0 x16 Slot (PCIE1), supports x16 mode* Chipset: - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module * Supports NVMe SSD as boot disks - 15µ Gold Contact in VGA PCIe Slot (PCIE1)
Graphics	Integrated AMD RDNA™ 2 graphics (Actual support may vary by CPU) - 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 4K 120Hz
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio
LAN	- Gigabit LAN 10/100/1000 Mb/s - Realtek 8111H
Wireless LAN	- 802.11ax Wi-Fi 6E Module - Supports IEEE 802.11a/b/g/n/ac/ax - Supports Dual-Band 2x2 with extended 6GHz band* support * Wi-Fi 6E (6GHz band) will be supported by Microsoft® Windows® 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available. * A 6GHz compatible router is required for 6E functionality. - 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth 5.2 + High speed class II - Supports MU-MIMO
USB	- 2 x USB 3.2 Gen1 Type-C (1 Rear, 1 Front) - 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front) - 8 x USB 2.0 (4 Rear, 4 Front) * All USB ports support ESD Protection

Rear Panel I/O	- 2 x Antenna Ports - 1 x HDMI Port - 1 x DisplayPort 1.4 - 3 x USB 3.2 Gen1 Type-A Ports - 1 x USB 3.2 Gen1 Type-C Port - 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
Storage	CPU: - 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2260/2280 PCIe Gen4x4 (64 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 M.2 Socket (M2_3, Key M), supports type 2260/2280 PCIe Gen3x2 (16 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks
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* * Requires additional M.2 NVMe expansion cards to support RAID 10
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)*** - 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)**** - 3 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 Front Panel Audio Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) - 1 x Front Panel Type C USB 3.2 Gen1 Header * 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). ***** CHA_FAN1~3/WP support the fan power up to 2A (24W). ***** CPU_FAN2/WP and CHA_FAN1~3/WP can auto detect if 3-pin or 4-pin fan is in use.
BIOS Feature	- 256Mb AMI UEFI Legal BIOS with GUI support
Software and UEFI	Software - ASRock Motherboard Utility (A-Tuning) - ASRock Polychrome SYNC - ASRock XFast LAN * These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI - ASRock Full HD UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
OS	- Microsoft® Windows® 10 64-bit / 11 64-bit
Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- 1 x User Manual - 2 x SATA Data Cables - 2 x ASRock WiFi 2.4/5/6 GHz Antennas - 3 x Screws for M.2 Sockets - 1 x Standoff for M.2 Socket