

MS-Challenger A620A 2.5G

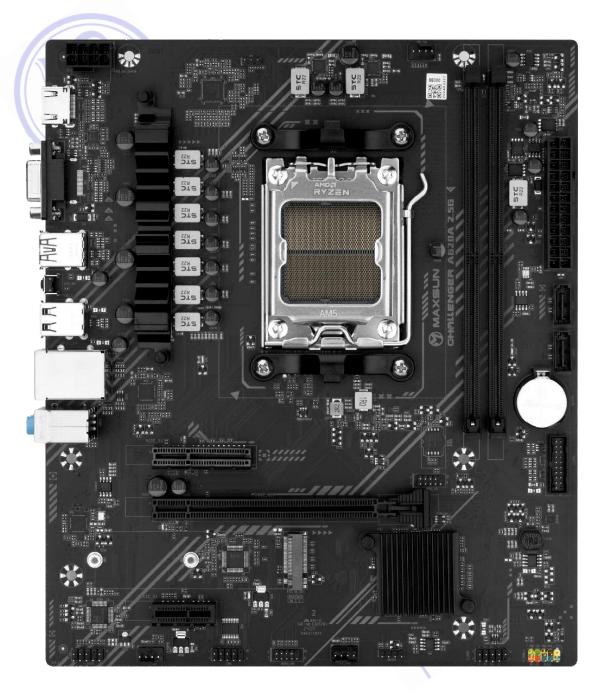
Manual

VER:A0

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Chapter I Motherboard Configuration Chart



(This picture is for reference only, some details will be designed and adjusted according to the actual situation, please prevail in kind, our company reserves the right of interpretation)



Chapter II Specifications

2.1. Motherboard hardware specifications

Motherboard	Micro ATX(245*210mm)		
Size			
CPU	Supports LGA1718 slot		
	AMD RYZEN7000\8000 Series		
	TDP: 105W (6+2+1 phases)		
Chipsets	AMD®A620A High-Speed Chipset		
Memory	2* DIMM DDR5 memory slots		
(RAM)	Supports up to a total of 96 GB		
	Supports dual-channel memory technology		
	Support 4800MHZ/5200MHZ/5600MHZ OC Memory Frequency		
Display	Shared display memory technology based on display capabilities with integrated graphics processor		
	1* HDMI port, supports up to 3840*1920@30Hz resolution		
	1* VGA connector, supports up to 1920*1080@60Hz resolution		
Extended	1* PCIEX16 4.0 slot, 1 PCIE X1 3.0 slot, 1* open PCIE X4 3.0 slot		
Interface Supports AMD and NVIDIA and INTEL discrete graphics cards			
	Supports PCIE resizable bar technology		
Audio	Integrated ALC897 sound chip		
	Support front and rear channel outputs at the same time		
	Rear audio interfaces: 1* rear onboard LINE IN connector, 1* rear onboard LINE OUT connector,		
	1* rear onboard MIC_IN microphone connector		
	F_AUDIO pins: 1* front microphone pin, 1* front audio output pin (these 2-pin are F_AUDIO		
	pins)		
	1* set of 4-pin speaker BUZZER pins		
LAN	1* onboard RJ45 connector, onboard REALTEK 8125 2.5G LAN		
	Supports Wake-on-LAN		
	Support PXE diskless, UEFI diskless boot		
SSD	1* M.2 4.0 slot (supports 2242/2280 PCIE X4/X2 4.0 protocol SSD)		
	2* SATA3.0 ports		
USB	Onboard rear ports: 4 USB3.2 GEN1 ports, 2 USB2.0 ports		
	On-board pins: 1 set (2 pcs) of USB2.0 pins, 1 set (2 pcs) of USB3.2 GEN1 pins		
In-board	1* 24-PIN motherboard ATX power		
sockets	1* 8-PIN Motherboard ATX 12V Supply /12V Input		
	1* COM_A pin		
	2* system fan pins, 1* CPU fan pin (except SYS_FAN2 pin which supports intelligent fan		
	adjustment)		
	1* set of CLR_CMOS pins		
	1* Debug Pin		
	1* set of chassis front control panel pins (F_PANEL)		



Hardware	Voltage monitoring	
monitoring	Temperature monitoring	
	Fan monitoring	
	Intelligent fan speed control (supported by motherboard, intelligent fan speed control also requires	
	fan support)	
Operating	Support Windows 10 64bit, Windows 11 64bit	
system	Ubuntu 64bit support	
ESD	Air discharge ± 8KV Class C	
protection	±6KV Class B	
protection	Contact discharge ± 6KV Class C	
	± 3KV Class B	
	*Tested with the whole machine well grounded	
Package	Color box size: 289*245*65mm	
Size and	Outer box size: 510*302*347mm	
Weight		



A: HDMI Port

Supports up to 3840*1920@30Hz resolution (HDMI version 1.4) for connecting to a monitor.

B: VGA Port

Supports up to 1920*1080@60Hz resolution for connecting to a monitor.

C: Dual-layer USB3.2 GEN1 TYPE A Port

Supports up to 5Gb theoretical transfer speed and is backward compatible with USB1.1 standard for connecting USB TYPE A devices.

D: CLR_CMOS Button

Restore BIOS settings button, when you need to restore the settings, you need to disconnect the AC power and press the button for 3-5S.

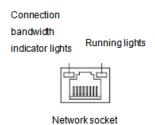


E: Dual-layer USB2.0 TYPE A Port

Supports up to USB2.0 standard and is backward compatible with USB1.1 standard. For connecting USB TYPE A devices.

F: RJ45 Port

Network cable interface for accessing a network cable to link the host system to the network with a maximum bandwidth of 2500Mbps.



Connection bandwidth			
indicator			
bandwidths	lamp state		
connectionless	go out (of a fire		
	etc.)		
10Mbps	go out (of a fire		
0.0	etc.)		
100Mbps	Green Always		
	On		
1000Mbps	Orange color is		
	always on		
2500Mbps	Orange color is		
	always on		

Operation Indicator Light		
No data	go out (of a	
transmission	fire etc.)	
during data	vague (of	
transmission	speech)	

G: Dual-layer USB3.2 GEN1 TYPE A Port

Supports up to 5Gb theoretical transfer speed and is backward compatible with USB1.1 standard for connecting USB TYPE A devices.

H1: LINE IN connector (blue)

Used to receive audio input devices, such as cell phone audio input.

H2: Audio-out connector (light green)

Used to access audio output devices, such as headphones, speakers and other external amplification devices.

H3: Audio-Microphone connector (pink)

Used to access audio input devices, such as microphones and other radio devices.