

# PC-GS6277A

Intel® 12/13th Gen Alder Lake-S Core™ Processor  
Fanless Embedded BOX PC



## Features:

- Intel® 12th/13th Core™ i3/i5/i7 series or Pentium®, Celeron® series desktop processor
- H610 chipset (optional Q670)
- 2\*DDR4 3200MHz Sodimm, maximum 64GB
- Support HD+DP, 2+1 display
- 1\*m.2 E-key 2230, supports Gigabit WIFI module
- 2\*SATA3.0 Easy to insert hard disk frame, 1\*full size MSATA, with SIM card slot
- Wide pressure power supply DC 9-36V, with overcurrent anti-connection protection

## Specifications:

### System Specifications

CPU	Intel® 12th/13th-Gen Core™ i7/i5/i3/Pentium®/Celeron® LGA 1700 processor, maximum 8 core 16 threads	Memory	2*260-pin sodimm, dual-channel DDR4 3200MHz, maximum support 64GB
Chipset	Intel® H610	Storage	2*2.5 "SATA3 6.0Gbps HDD/SSD easy inserting hard disk frame
Graphics	Intel® UHD Graphics, SUPPORTS DIRECTX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16 graphics display interface (half long)		1*m.2 2280 m-key (supports SATA/PCIE-X4)
Watchdog	Programmable timeout interruption or system reset, 1 to 255 seconds		

### OS

OS Support Win10/Win11 and various versions of linux versions of operating systems

### I/O Ports

USB	6 USB3.0 interfaces, 2 USB2.0 (built -in)	Video	1*Audio-OUT & 1*MIC dual 3.5mm Phone Jack interface
LAN	6*RJ45 Gigabit network port, LAN1 uses Intel® I225LM network card chip, LAN2 uses Intel® i211AT network card chip, of which LAN3 ~ 6 supports the POE 802.3AF standard.	Expand	1*M.2 2230 E-Key (supports wifi+Bluetooth) 1*M.2 3042/52 B-Key (4G/5G module), with the SIM card slot
COM	2*RS232, you can select RS232/485/422 mode through BIOS	Switch	1*Power SW
GPIO	8DI*8DO, Four Road Light Source Output	Indicator Light	1*Power indicator light (green, often on after booting), 1*HDD hard disk indicator (red, flashing)
Audio	1*DP1.2 (maximum output resolution: 7680x4320 @ 60Hz) 1*HD 2.0B (maximum output resolution: 4096x2160@60Hz)		

## Power

Power	DC in 18 ~ 36V, 2*2pin lock -to -threaded thread plug -in wiring terminal 5.08mm	Power Consumption	The power consumption of the whole machine is 260W. If you want to use the 24V light source output, you must also use 24V fixed voltage
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## Environment

Vibration Protection	5grms/5~500Hz/random/working status (SSD); 1grms/5~500Hz/random/working status (HDD)	Operating Temp.	-25 ~ 60°C, no fan, wide temperature SSD, air flow -10 ~ 55°C, no fan, room temperature SSD, air flow
Shock Protection	50g peak acceleration (lasting 11ms) (SSD); 20g peak acceleration (lasting 11ms) (HDD)	Storage Temp.	-40°C ~ 85°C
Reliability	MTBF≥50000h; MTTR≤0.5h	Humidity	10 ~ 90%@40°C, no condensation

## Mechanical

Dimensions(WxHxD)	262*205*87.69mm	Material	Aluminum rectangular material heat dissipation shell, SGCC box body
Weight	4.5kg		
Color	Silver white+green		

## Ordering Information

PC-GS6277AP0	H610 Chipset/LGA1170 12/13th Gen. Core™ i3/i5/i7 series or Pentium®, Celeron® series desktop processor/2*SO-DIMM DDR4/2*2.5 inches /1*m.2 2280 m- Key (supports SATA/PCIE-X4)/2*COM/1*DP+1*HD/2*LAN+4*POE LAN/1*Audio/6*USB 3.0 Type A+2usb 2.0/16- Bit Dio/1*M.2 2230 E-Key (supports WIFI+Bluetooth) /1*m.2 3042/52 B-key (4G/5G module), with SIM card slot/18-36VDC/No extension
Optional CPU	i9-12900, i7-12700, i5-12600, i5-12500, i5-12400, i3-12300, i3-12100, G7400, G6900 (BIOS must limit power consumption to 35W) i9-12900T, i7-12700T, i5-12600T, i5-12500T, i5-12400T, i3-12300T, i3-12100T, G7400T, G6900T, G6900T (CPU SOCKETS FCLGA1700)

## Dimensions:

