



Product model	SD890-680PM
processor	Supports LGA1700 12th/13th Intel® Celeron/Pentium/Core™ i3/i5/i7/i9 Alder Lake-S and Raptor Lake-S and Xeon processors,Note: Supports 125W cpus
chipset	Using Intel® W680 chipset,
Internal memory	4* DDR4 DIMM slots support a dual-channel memory of up to 3200MHz, 128GB, and ECC memory
display	Integrated Intel®HD Graphics core graphics card supports DirectX12.1,OpenGL4.5, and supports 4K display
	1* VGA port
	1* HD OUTPUT1.4 interface, support the highest resolution of 4096*2160@24Hz
	1* DP interface, the maximum resolution is 4096*2160@60Hz
network	2* I210AT Gigabit network adapter chip, supports network wake up /PXE function
	1* I219LM Gigabit network adapter, support network wake up /PXE

	function, support PRO function
deposit	2* MSAS hard disk interface, each MSAS supports 4 7pin SATA, a total of 8 7pin SATA transmission speed up to 6Gbps
	2 * M.2 slot, support M.2 Key M 2280 NVME PCIE X4 standard SSD
Tone frequency	Onboard ALC897 7.1+ 2-channel hi-Fi audio controller with MIC/Line-out/Line-in support
Expansion slot	4* PCIE3.0 X16 slot, the actual X8 signal
I/O ports on the backplane	2* USB2.0 port
	1* DP interface
	1* HD OUTPUT1.4 port
	1* VGA port
	1* DB9 serial interface
	3* RJ45 Gigabit network interface
	2* USB3.0 port
	1* Layer 3 audio interface, support Line-out,MICK,Line-in
Built-in I/O interface	1* vertical USB3.0 interface
	2* USB2.0 interface 2*5pin
	2* USB3.0 interface 2*10pin
	1* front audio interface 2*5pin
	1* TPM1 interface 2 x 6pin
	1* 24pin ATX power interface
	2* 8pin ATX power interface
	2* Front panel function buttons and indicator ports 2*5pin
Fan interface	2*4pin CPU fan interface; 3*4pin system fan port
BIOS	128Mb Flash ROM

Guard dog	Support hardware reset function (256 level, 0~255 seconds)
Operating system	Windows 10/Windows 11/Linux
Power supply type	Powered by ATX 24Pin and 8pin power supplies
Operating temperature	0°C to 60°C
Storage temperature	-20°C to 70°C
Working humidity	5%-95% relative humidity, no condensation
Size	305mm * 245mm

