Product model	SD890-510R1/510M1
processor	**Supports LGA1200 10th/11th Intel® Celeron/Pentium/Core i3/i5/i7/i9 processors**
	Note: Support 10/11 generation 125W CPU
Chipset	**With Intel® H510 chipset,**
Memory	**2 x DDR4 SODIMM slots, supporting a dual-channel memory of up to 3200MHz and up to 128GB**
Display	Integrated Intel®HD Graphics core graphics card supports DirectX12.1,OpenGL4.5, and supports 4K display
	1 x VGA port, the maximum resolution is 1920X1200@60Hz
	1* HD OUTPUT1.4 interface, support the highest resolution of 4096x2304@24Hz
Network	**2* Intel 8111H/I226V Gigabit network adapter chip, support network wake up /PXE function**
Store	**2* SATA3.0 hard disk interface, transmission speed up to 6Gbps**
Audio frequency	**1* MSATA slot, supporting Intel SSDS**

Audio frequency	**Onboard ALC897 7.1+2 channel hi-fi audio controller with MIC/Line-out support**
Expansion slot	**1* PCIE3.0 X16 slot**
I/O ports on the backplane	**1* M.2, supporting the M.2 2230 WIFI module**
	1* PS/2 interface (expandable keyboard and mouse)
	1 x DB15 VGA port
	1* HD OUTPUT1.4 port
	2* DB9 RS232 serial port, support 9pin live function, support RS485/422
	2* USB2.0 port
	4* USB3.0 port
	2* RJ-45 Gigabit network interface
Built-in I/O interface	**1* Dual-layer audio interface (sound output and MIC input)**
	3* USB2.0 port 2*5pin F_USB2 supports only one USB2.0
	1* Front panel audio interface (2*5pin)
	1* Front panel function buttons and indicator ports (2*5pin)
	1* 24pin ATX Power socket 1* 8pin ATX power socket
	1* PS/2 keyboard and mouse interface 1*6pin
	1* JVGA port 1*12pin, same signal as DB15
Fan interface	**4* RS232 serial port, 2*20pin**
BIOS	**1*4pin CPU fan interface; 1*4pin system fan port**
Guard dog	**64Mb Flash ROM**
Operating system	**Support hardware reset function (256 level, 0~255 seconds)**
Power supply type	**Windows 10/Windows 11/Linux**
Operating temperature	**Powered by ATX 20Pin and 8pin power supplies**
Storage temperature	**0℃ to 60℃**
Working	**-20℃ to 70℃**

humidity	
Size	**170mm * 170mm**

PS/2
ATX_8pin
JVGA
LGA1200
M.2(WIFI)
AUDIO
COM3_6

SATA
GPIO
DDR4
FP1
MSATA
ATX 24Pin
PCIE3.0 X16

F_USB

USB2.0
PS/2

VGA
HDMI

COM

LAN
USB3.0

Line-out
MIC