

# Dx510P

Provides performance and versatility to address your most demanding applications

Exatron Dx510P a desktop featuring an Intel Q670 chip set is designed for is built to provide a stable, secure, and high-performance foundation for demanding business applications, leveraging the latest Intel processor technology and the speed of DDR5 memory. It supports Intel's 12th, 13th and 14th Gen processors, offering reliable performance for essential computing needs.

## Exatron Dx510P

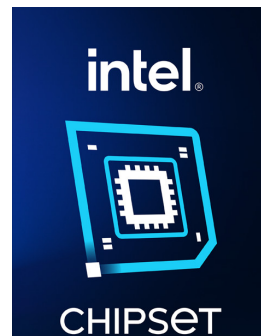
- Modern Intel CPU Support
- Flexible Memory Options
- High-Speed Storage & Graphics
- Excellent Connectivity

### Ideal for

- Corporate Desktops / Business Workstations
- Specialized Industrial PC
- High-Performance or Small Servers

## Intel Q670 chipset

With the Intel® Q670 chipset and the 12/13/14th generation Intel® Core™ i9/ i7/ i5/ i3 processors and Intel® Pentium® processors, you will immediately be at the forefront of the battlefield, fueled by mind-blowing power and performance. From content creation to gaming, the Intel Q670 chipset provides you with the power and performance you need.



## HD Audio

Provides high quality sound with minimal loss of audio fidelity.



## Hi-Fi AMP

The built-in amplifier can drive major high-end headphones with over 100dB loads and offer wide band-width, low noise, high slew rate and low distortion audio source from front panel I/O. Gaming enthusiasts can enjoy a fuller range of dynamic sound with crisper details and less distortion.



## Hi-Fi Ground

EXATRON Hi-Fi Ground ( Golden Line ) is noise-blocking multi-layer PCB design to isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.



## Smart Ear

Smart EAR is a windows-based audio utility which allows you to easily adjust system volume. With its user-friendly GUI, you can also increase or decrease impedance setting (Low/High Gain) to optimize your headphone performance. You can easily enjoy high-quality and awesome sound.



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## HDMI 4K2K

The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI cable for displaying 4K2K data.



## DX 12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.



## DDR5

The primary advantages of DDR5 include higher module density, lower voltage requirements, coupled with higher data transfer rate.

## S-Hyper PWM

The S-Hyper PWM has DCR current sensing architecture and lossless characteristic, offering excellent precision in delivering stable power with 100% fixed voltage to ensure that critical components of the motherboard are under protected with the maximum performance and reliability.



## Super Durable Solid Caps

The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.



## PCIe 3.0

PCIe 3.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



## SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.



## PCIe 4.0 M.2

PCIe 4.0 M.2 delivers the highest bandwidth and lower latency. It is 2 times faster compared with PCIe 3.0 M.2.



## USB 3.2 Gen1 Type-A

USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.



## Super LAN Surge Protection

Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.



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## ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.



## OC / OV / OH Protection

OC / OV / OH Protection design detects over voltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the over voltage supply to protect your system.



Feature	Technical Specifications
Chipset	Intel® Q670 Express Chipset
CPU SUPPORT	LGA1700 socket: Support for the 14th, 13th, and 12th Generation Intel® Core™ Pentium® Gold and Celeron® Processors
	L3 cache varies with CPU
MEMORY	<ul style="list-style-type: none"> <li>• Supports 2 x DDR5 5600MHz,Max Support 96Gb</li> <li>• Dual channel memory architecture</li> </ul> <p>(The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support")</p>
Onboard Graphics	<b>Integrated Graphics Processor-Intel® HD Graphics support:</b> <ul style="list-style-type: none"> <li>- 1 x D-Sub port, support</li> <li>- 1 x HDMI 1.4 port, support</li> <li>- 1 x DP 1.4 Port</li> </ul>
Storage Interface	1 x Ultra M.2 Socket (M2_2, Key M), supports type 2242/2280 PCIe Gen4x4 (64 Gb/s) modes
	1 x Ultra M.2 Socket (M2_2, Key M), supports type 2242/2280 SATA3 6.0 Gb/s & PCIe Gen4x4 (64 Gb/s) modes  4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices
WiFi	1 x M.2 Socket 1 with E key Type 2230 connector for the wireless communication module (M2_WIFI 6E)

LAN	Realtek RTL8111K
	Gigabit LAN 1 Gbps/100 Mbps
Audio	Realtek ALC897 7.1 CH HD Audio Code
	High Definition Audio
	Support 2/4/5.1 Channels
TPM	support TPM
USB	2 x USB2.0
	4 x USB3.2 Gen1
	1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports)
	2 x USB 2.0 Headers (Support 3 USB 2.0 ports)
Back Panel Connectors	2 x USB2.0
	4 x USB3.2 Gen1
	1 x HDMI 1.4 Port
	1 x DP 1.4 Port
	1 x D-Sub port
	3 x audio jacks
	1x RJ-45 ports
	1 x PS/2 Mouse/Keyboard Port

<b>EXPANSION SLOT</b>	<b>CPU</b> 1 x PCIe 4.0 x16 slot (PCIE1), Supporting x16 mode
	<b>Chipset</b> 1 x PCIe 3.0 slot x1 (PCIE2)
<b>DIMENSION</b>	Micro ATX Form Factor: 23.5*22.5cm
<b>OS SUPPORT</b>	Supports Windows Windows 10(64bit) / Windows 11(64bit)

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