

Tx100-q

Provides performance and versatility to address your most demanding applications

Exatron Dx510P desktop featuring an Intel Q670 chipset 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 tx100-q

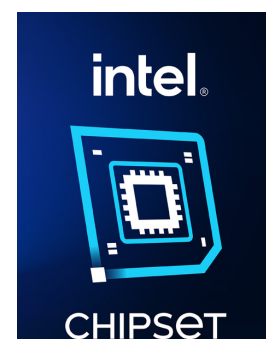
- Modern Intel CPU Support
- Flexible Memory Options
- High-Speed Storage & Graphics
- Excellent Connectivity

Ideal for

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

Intel Q670 chipset

With the Intel® Q670 chipset and the 12th 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.



Dual DDR4

The primary advantages of DDR4 over DDR3, 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.



2.5Guard

2.5GUARD features 2.5G having higher data transfer speeds and can strengthen electrical stability and prevent damage from lightning strikes and electrical surges. It's 2.5X improvement than standard Ethernet connections.



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	14th and 13th Generation Intel® Core™ i9/i7 Processors: - Support for DDR5 5600/5200/4800/4400 MT/s memory modules
	13th Generation Intel® Core™ i5/i3 and 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors: - Support for DDR5 4800/4400 MT/s memory modules
	• 4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory • Dual channel memory architecture • Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) • Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules • Support for Extreme Memory Profile (XMP) memory modules (The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support")
Onboard Graphics	Integrated Graphics Processor-Intel® HD Graphics support: - 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz - 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.0 version and HDCP 2.3. - 1 x Display Port, supporting a maximum resolution of 4096x2304@60 Hz * Support for Display Port 1.2 version and HDCP 2.3 - 1 x Display Port, supporting a maximum resolution of 4096x2304@60 Hz * Support for Display Port 1.2 version (Graphics specifications may vary depending on CPU support.)
	Support for up to quad-display at the same time

Storage Interface	CPU : 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU)
	Chipset : 1 x M.2 connector (Socket 3, M key, type 2280 SATA and PCIe 4.0 x4/x2 SSD support) (M2P_SB) 4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, and RAID 5 support for NVMe SSD storage devices RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices
LAN	Intel® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps) (LAN1)
	Intel® GbE LAN chip (1 Gbps/100 Mbps/10 Mbps) (LAN2)
Audio	Realtek® Audio CODEC
	High Definition Audio
	2/4/5.1/7.1-channel
	Support for S/PDIF Out
TPM	Infineon chip, supporting TPM 2.0
USB	1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2 support
	1 x USB Type-C® port with USB 3.2 Gen 1 support, available through the internal USB header
	1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2 support
	5 x USB 3.2 Gen 1 ports (3 ports on the back panel, 2 ports available through the internal USB header)
	6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)

Back Panel Connectors	1 x PS/2 keyboard/mouse port
	1 x D-Sub port
	1 x HDMI port
	2 x DisplayPorts
	1 x USB Type-C® port, with USB 3.2 Gen 2 support
	3 x USB 3.2 Gen 1 ports
	2 x USB 2.0/1.1 ports
	3 x audio jacks
	2 x RJ-45 ports
EXPANSION SLOT	CPU: 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 (PCIEX16) Chipset: - 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4) - 1 x PCI Express x1 slot, supporting PCIe 3.0 and running at x1 (PCIEX1)
H/W MONITORING	Fan fail warning & Fan speed control
	Voltage detection
	Temperature detection
	Fan speed detection
DIMENSION	Micro ATX Form Factor Dimension: 19.8cm x 22.8cm (W x L)
OS SUPPORT	Supports Windows Windows 10(64bit) / Windows 11(64bit)

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