

# Dx505AP

Provides performance and versatility to address your most demanding applications

Exatron Dx505AP a desktop featuring an AMD B550 chip set is designed for is built to provide a stable, secure, and high-performance foundation for demanding business applications, leveraging the latest AMD processor technology and the speed of DDR4 memory. It offers reliable performance for essential computing needs.

## Exatron Dx505AP

- Modern AMD 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

## AMD B550 Chipset

AMD B550 is the high-end chipset for over clockers and tweakers who need robust platforms. This chip provides the ultimate low-level control to its users and delivers ultimate graphics card bandwidth. It also supports PCI-E Gen4 bandwidth



## HD Audio

Provides high quality sound with minimal loss of audio fidelity.



## 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.



## PCIe M.2

PCIe M.2 32Gb/s delivers the highest bandwidth and lower latency. It is 3 times faster compared with PCIe M.2 10Gb/s.



## 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.



## 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.



## DDR4

The primary advantages of DDR4 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.



## 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.



## DVI

DVI is better than VGA for LCD displays since it is digital while VGA is analog. For LCD displays, the picture is digitized pixel per pixel. Through DVI, the panel gets data for each pixel, so the picture generated in the Graphics device matches the pixels on the panel itself.



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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.



## 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.



## 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.



## 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.



Feature	Technical Specifications
Chipset	<ul style="list-style-type: none"> <li>•AMD B550</li> </ul>
CPU SUPPORT	<ul style="list-style-type: none"> <li>• Socket AM4 support AMD Ryzen 3rd Gen (Matisse/ Renoir) and Ryzen 4th Gen</li> <li>• (Vermeer/ Future) processors</li> <li>• Support for future AMD Ryzen processors with BIOS update</li> </ul>
MEMORY	<ul style="list-style-type: none"> <li>• 4th Gen AMD Ryzen Processors (Vermeer CPUs/ Future APUs):</li> <li>• Supports Dual Channel DDR4 4400+(OC)/ 4000(OC)/ 3800(OC)/ 3600(OC)/ 3200/ 2933/ 2667/ 2400/ 2133</li> <li>• 3rd Gen AMD Ryzen Processors (Matisse CPUs):</li> <li>• Supports Dual Channel DDR4 4400+(OC)/ 4000(OC)/ 3800(OC)/ 3600(OC)/ 3200/ 2933/ 2667/ 2400/ 2133</li> <li>• 3rd Gen AMD Ryzen with Radeon Graphics Processors (Renoir APUs):</li> <li>• Supports Dual Channel DDR4 4933+(OC)/ 4800(OC)/ 4600(OC)/ 4400(OC)/ 4000(OC)/ 3800(OC)/ 3600(OC)/ 3200/ 2933/ 2667/ 2400/ 2133</li> <li>• 4 x DDR4 DIMM Memory Slot, Max. Supports up to 128 GB Memory</li> <li>• Each DIMM supports non-ECC and ECC Un-buffered 8/ 16/ 32 GB DDR4 module</li> </ul>
INTEGRATED VIDEO	<ul style="list-style-type: none"> <li>•By CPU model</li> <li>•Supports DX12</li> <li>•Supports HDCP</li> </ul>
Storage Interface	<ul style="list-style-type: none"> <li>• Total supports 2 x M.2 socket and 4 x SATA III (6Gb/s) ports</li> <li>• 1 x M.2 (M Key) Socket (M2_PCIEG4_64G_SATA):</li> <li>• Supports M.2 Type 2242/ 2260/ 2280 SSD module</li> <li>• AMD Ryzen 5000/3000 Series Processors</li> <li>• Supports PCIe 4.0 x 4 (64Gb/s) &amp; SATA III (6.0Gb/s) SSD</li> <li>• AMD Ryzen 5000 G/4000 G Series Processors</li> <li>• Supports PCIe 3.0 x 4 (32Gb/s) &amp; SATA III (6.0Gb/s) SSD</li> <li>• AMD B550 Chipset</li> <li>• 1 x M.2 (M Key) Socket (M2_PCIEG3_32G_SATA):</li> <li>• Supports M.2 Type 2242/ 2260/ 2280 SSD module</li> <li>• Supports PCIe 3.0 x4 (32Gb/s) &amp; SATA III (6.0Gb/s) SSD</li> <li>• 4 x SATA III Connectors (6Gb/s) : Supports AHCI &amp; RAID 0, 1, 10</li> </ul>

<b>LAN</b>	<ul style="list-style-type: none"><li>• Realtek RTL8111H</li><li>• 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability</li></ul>
<b>Audio</b>	<ul style="list-style-type: none"><li>• ALC897</li><li>• 7.1 Channels, High Definition Audio, Hi-Fi (Front)</li></ul>
<b>TPM</b>	TPM Header
<b>USB</b>	<ul style="list-style-type: none"><li>• 6 x USB 3.2 (Gen1) ports (4 on rear I/Os and 2 via internal headers)</li><li>• 6 x USB 2.0 ports (2 on rear I/Os and 4 via internal headers)</li></ul>
<b>Back Panel Connectors</b>	<ul style="list-style-type: none"><li>• 2 x WIFI Antenna Ports</li><li>• 1 x PS/2 Keyboard / Mouse</li><li>• 1 x DVI-D Port</li><li>• 1 x VGA Port</li><li>• 1 x HDMI® Port</li><li>• 1 x LAN port</li><li>• 4 x USB 3.2 (Gen1) Ports</li><li>• 2 x USB 2.0 Ports</li><li>• 3 x Audio Jack</li></ul>

<p><b>EXPANSION SLOT</b></p>	<ul style="list-style-type: none"> <li>• <b>AMD Ryzen 5000/3000 Series Processors</b></li> <li>• <b>1 x PCIe 4.0 x16 Slot (x16 or x4/x4/x4/x4 mode)</b></li> <li style="text-align: center;"><b>or</b></li> <li>• <b>AMD Ryzen 5000 G/4000 G Series Processors</b></li> <li>• <b>1 x PCIe 3.0 x16 Slot (x16 or x8/x4/x4 mode)</b></li>   <li>• <b>AMD B550 Chipset</b></li> <li>• <b>1 x PCIe 3.0 x16 Slot (x4 mode)</b></li> <li>• <b>1 x PCIe 3.0 x1 Slot</b></li> <li>* <b>According to different CPUs will have different speeds.</b></li> <li>* <b>PCIe 4.0 speed only for AMD Ryzen 3rd Gen Matisse and 4th Gen Vermeer CPUs.</b></li> </ul>
<p><b>INTERNAL I/O</b></p>	<ul style="list-style-type: none"> <li>• <b>4 x SATA III (6.0Gb/s) Connectors</b></li> <li>• <b>1 x M.2 (E Key) Socket : Supports 2230 type Wi-Fi &amp; Bluetooth module</b></li> <li>• <b>2 x USB 2.0 Header (each header supports 2 USB 2.0 ports)</b></li> <li>• <b>1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports)</b></li> <li>• <b>1 x 8-Pin Power Connector</b></li> <li>• <b>1 x 24-Pin Power Connector</b></li> <li>• <b>1 x CPU Fan Connector</b></li> <li>• <b>2 x System Fan Connectors</b></li> <li>• <b>1 x Front Panel Header</b></li> <li>• <b>1 x Front Audio Header</b></li> <li>• <b>1 x Speaker Header</b></li> <li>• <b>1 x Clear CMOS Header</b></li> <li>• <b>1 x S/PDIF out Connector</b></li> <li>• <b>1 x COM Port Header</b></li> <li>• <b>1 x TPM Header</b></li> <li>• <b>1 x SYSTEM Status LED</b></li> <li>• <b>* M.2 (E key) Wi-Fi card is not provided</b></li> </ul>
<p><b>DIMENSION</b></p>	<p><b>Micro ATX Form Factor: 23.5*22.5cm</b></p>
<p><b>OS SUPPORT</b></p>	<p><b>Supports Windows Windows 10(64bit) / Windows 11(64bit)</b></p>

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