

Article-No.: 145063

exone Workstation Entry X13

i5-13500, 16GB, 500GB SSD, RTX A2000, W11Pro

Classic power: The high-performance entry-level workstation for timeless efficiency!

The Exone Workstation Entry is a reliable and powerful workstation with a classy, sleek design. Equipped with NVIDIA graphics cards, complex 2D/3D models can be created quickly and easily. The innovative cooling system ensures that the workstation operates reliably and quietly even under heavy workloads. Increase your productivity with the Exone Workstation Entry and see how it helps you work more effectively.

Technical data

Keyboard/Mouse

keyboard

| | |
|------------------|---|
| manufacturer | CHERRY® |
| model | Business Ultra Flat |
| interface | USB 2.0 |
| color | black |
| liaison | corded |
| cable's length | 1,8 m |
| splash-proof | yes |
| layout | German |
| numeric keypad | incl. |
| caret | incl. |
| hotkeys | calculator, email, browser, sleep mode |
| interoperability | Windows |
| lettering | lasered |
| particularity | modern flat design, whisper-quiet keystroke |

mouse

| | |
|-------------------|--|
| manufacturer | CHERRY® |
| model | M5450 |
| interface | USB 2.0 |
| color | black |
| technology | optical |
| number of buttons | 3 |
| scroll wheel | yes |
| liaison | corded |
| cable's length | 1,8 m |
| particularity | ergonomic, ideal for left- and right-handers, easy scrolling |

Housing Accessories

| | |
|-------------|---|
| accessories | Graphic accessories mini Display port -> Display port adapter |
|-------------|---|

Power supply

| | |
|--------------|------------|
| manufacturer | Fortron |
| form factor | ATX |
| type | intramural |



Highlights

- Classic tower design
- Intel® Core™ i5 processors 12th & 13th Gen
- powerful NVIDIA® T1000 or RTX A2000



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| | |
|---------------------|-----------------|
| power | 600 Watt |
| 24/7 suitable | yes |
| refrigeration | energetic |
| fan type | 120 x 120 mm |
| input voltage range | 200 - 240V AC V |
| current draw | 4,5 A |
| certification | 80 PLUS Bronze |
| power switches | yes |
| molex Connector | 3 |
| floppy Connector | 1 |
| SATA Connector | 6 |
| 4+4-pin connector | 1 |
| 6+2-pin connector | 2 |
| width | 150 mm |
| hight | 86 mm |
| deepth | 140 mm |
| heart rate | 50 - 60 Hz |
| CE | yes |
| TÜV | TÜV Rheinland |
| RoHS | yes |

Main storage (2 x)

| | |
|-------------|------------|
| size | 8 GB |
| technology | DDR4-SDRAM |
| form factor | DDR-DIMM |
| connector | 288-pole |
| speed | 3200 MHz |
| tension | 1,2 V |
| ECC | no |

Housing PC

| | |
|--|-------------|
| manufacturer | exone |
| type | Micro Tower |
| form factor | Micro ATX |
| front interface USB 3.2 Gen1 (5Gbit/s) | 2 |
| front interface audio | 2 |
| power switches | yes |
| drive bays 5.25" external | 2 |
| drive bays 3.5" external | 2 |
| drive bays 3.5" internal | 1 |
| drive bays 2.5" internal | 1 |
| number of expansion slots | 4 |



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| | |
|----------------------|---------------------------|
| number of front fans | 1 |
| front fan min. size | 80 mm |
| front fan max. size | 92 mm |
| number of fans | 1 |
| rear fan min. size | 80 mm |
| return fan max. size | 92 mm |
| safety | Kensington Lock, lockable |
| color | black/silver |
| dimensions (WxHxD) | 175 x 370 x 385 mm |
| Weight | 3,4 |

Operating system

| | |
|----------------------------|------------------------|
| installed operating system | Windows® 11 Pro 64-bit |
|----------------------------|------------------------|

Graphic controller

| | |
|----------------------------------|---|
| graphic processor | NVIDIA® PNY RTX A2000 |
| manufacturer | NVIDIA® |
| memory size | 6 GB |
| | 12.000 MB |
| storage type | GDDR6 |
| NVIDIA®- CUDA™ Processing Units | 3328 |
| chip clock | 562 MHz |
| boost timing | 1200 GHz |
| memory clock | 1500 MHz |
| memory interface | 192 -bit |
| memory bandwidth | 12 GBps |
| screen connectors | 4x miniDisplayPort |
| number of max. supported screens | 4 |
| Tilt | 4x 4096x2160 (@120Hz) oder 2x 5120x2880 (@60Hz) oder 2x 7680x4320 (@60Hz) |

Max. screen resolution

| | |
|-----------------|-----------------------------|
| VGA | - Pixel |
| miniDisplayPort | 7,680 x 4,320 (@60Hz) Pixel |
| Versions | Mini DisplayPort 1.4a |

Features

| | |
|---------------|---|
| DirectX | 12 Ultimate |
| Shader Model | 6.6 |
| OpenGL | 4.6 |
| OpenCL | 3.0 |
| particularity | Echtzeit-Raytracing, Raytracing Cores (26), Tensor Cores (104), NVIDIA G-Sync, 10bit Farbkantentiefe, AV1 Decode, HDCP 2.3, low profile PCB, low profile Blende (vormontiert), full profile Blende, inkl. 4x mDP-DP-Adapter |

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Form factor

| | |
|-------------------------|---------------------|
| max. energy consumption | 70 Watt |
| bus interface | PCI Express 4.0 x16 |
| need for slots | 2 |
| cooling system | energetic |

Hard disk

| | |
|-----------------|--|
| memory capacity | 500 GB |
| type | M.2 2280 |
| interface | M.2 PCIe® 3.0 x4 with max. 32 Gb/s (NVMe®) |

Processor

| | |
|---|-------------------------|
| manufacturer | Intel® |
| marking | Core™ i5 |
| type | 13500 |
| cpu socket | LGA1700 |
| cores | 14 |
| Performance Cores | 6 |
| Efficient Cores | 8 |
| threads | 20 |
| clock rate | 2,50 GHz |
| clock rate (Power Core) | 2,50 |
| clock rate (Efficient Core) | 1,80 |
| max. clock frequency with Intel® Turbo Boost technology | 4,80 GHz |
| L2 Cache | 11500 KB |
| L3 Cache | 24 MB |
| smartCache | 24 MB |
| bit set | 64 bit |
| max. TDP | 65 Watt |
| max. TDP Turbo | 154 Watt |
| processor graphic | Intel® UHD Graphics 770 |
| Intel® Hyper-Threading Technology | yes |
| Intel® Virtualization Technology (VT-x) | yes |

Mainboard Desktop

| | |
|--------------|--------------------|
| manufacturer | ASUS |
| marking | PRO B660M-C D4-CSM |
| form factor | Micro ATX |
| socket | LGA1700 |
| chipset | Intel® B660 |

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| | |
|--|--|
| working memory max. | 128 GB |
| memory slots | 4 |
| memory technology | DDR4-SDRAM |
| max. resolution VGA | 1,920 x 1,080 pixels @60Hz |
| max. resolution HDMI | 4,096 x 2,160 pixels @60 Hz (HDMI 2.1) |
| max. resolution DisplayPort | 4,096 x 2,304 pixels @60Hz (DisplayPort 1.4) |
| max. number of supported displays | 4 |
| network | |
| network chipset | Intel® i219V |
| transmission rate | 10/100/1000 Mbps |
| PXE support | yes |
| Wake on LAN (WOL) support | yes |
| WLAN | optional |
| bluetooth | optional |
| audio | |
| audio chipset | Realtek ALC 897 |
| sound mode | 7.1-channel high definition |
| rear interfaces | |
| USB 3.2 Gen1 (5Gbit/s) | 2 |
| USB 2.0 | 2 |
| PS/2 | 2 |
| VGA | 1 |
| HDMI | 1 |
| DisplayPort | 2 |
| Note monitor interfaces | HDMI 2.1 DisplayPort 1.4 |
| LAN (RJ-45) | 1 |
| audio | line-in, line-out, microphone |
| PCI Express x16 4.0 | 1 |
| PCI Express x1 3.0 | 2 |
| M.2 for SSD | 2 |
| hint | for M.2 SSD (2242/2260/2280 SATA/PCIe® x4) |
| M.2 for WLAN | 1 |
| hint | for WLAN module (2230 CNVi/PCIe®) |
| USB 3.2 Gen1 (5Gb/s) header | 1 |
| hint | 1x USB Header provides 2x USB Channel |
| USB 2.0 header | 2 |
| hint | 1x USB Header provides 2x USB Channel |
| serial | 2 |

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| | |
|-------------------------------|--|
| parallel | 1 |
| Trusted Platform Module (TPM) | Onboard TPM 2.0 Unterstützung (Intel PTT) |
| SATA3 (6 Gb/s) | 4 |
| other | |
| RAID onboard | SATA RAID 0/1/5/10 |
| 24-hour continuous operation | yes |
| Service | |
| Service | 3 years bring-in incl. replacement of parts in advance |