

Tx100-UW2

Provides performance and versatility to address your most demanding applications

The Exatron Tx100-UW2 workstation featuring the Intel W880 chipset and LGA1851 socket, engineered for Intel Core Ultra processors (Series 2) to power advanced AI computing and deep learning. It delivers exceptional performance and stability, unbuffered DDR5 memory support. Expansion and storage options are extensive, including twin PCIe 5.0 x16 slots for dual graphics cards, one PCIe 5.0 M.2 slot, and three PCIe 4.0 M.2 slots. For robust enterprise management, it features an onboard ASPEED AST2600 BMC controller for comprehensive out-of-band remote IPMI management, supplemented by dual 2.5Gb Ethernet ports and a 40Gbps Thunderbolt 4 port.

Exatron Tx100-UW2

- 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

Two M.2 Slots

The Exatron Tx100 provides a versatile PCIe expansion layout for professional workstations and server-class deployments. It features two PCIe 5.0 x16 slots supporting x16 or x8/x8 operation for high-performance GPUs, accelerators, and storage cards, along with one PCIe 4.0 x16 slot operating at x4 mode. PCIe 5.0 connectivity delivers exceptional bandwidth for AI, rendering, virtualization, and data-intensive workloads,

Multi-GPU Support

The Exatron Tx100 is designed for professional multi-GPU workloads, featuring two PCIe 5.0 x16 expansion slots that operate in x16 or x8/x8 mode. This configuration supports dual high-performance graphics cards for AI development, deep learning, content creation, rendering, and compute-intensive applications. Reinforced SafeSlot technology provides additional mechanical strength for large GPUs, while PCIe 5.0 bandwidth ensures maximum performance for next-generation graphics accelerators and workstation-class GPU deployments.

Intel W880 chipset

Intel W880 is a workstation-class chipset designed for Intel Core Ultra (Arrow Lake) processors LGA1851. It supports ECC DDR5 RDIMM, high memory capacity, and professional-grade stability. Provides massive PCIe Gen5 lanes for multi-GPU, NVMe, and expansion-heavy workloads. Used in high-end workstations for 3D rendering, simulations, and content creation.



High-Speed DDR5 Performance

The Exatron Tx100 features four dual-channel DDR5 DIMM slots supporting massive capacities ideal for memory-intensive workstation workloads. It unlocks extreme speeds reaching DDR5 9066+ MHz through advanced overclocking. This performance is enabled by AEMP III firmware, which optimizes cutting-edge CUDIMM modules to balance high frequencies with rock-solid stability.

2.5G Ethernet

The Exatron Tx100 workstation is equipped with robust networking capabilities, featuring dual Intel 2.5GbE LAN ports for high-speed data transfer, virtualization, and network-intensive workloads.



Feature	Technical Specifications
Chipset	Intel® W880 Chipset
CPU SUPPORT	- Supports Intel® Core™ Ultra Processors (Series 2) , LGA1851 - Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0* * Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.
MEMORY	4 x DIMM slots, max. 256GB, DDR5 - Support up to 9066+MT/s (OC), ECC and Non-ECC Un-buffered, Clocked Unbuffered DIMM (CUDIMM)* - Dual channel memory architecture - Supports DIMM Fit - Supports DIMM Flex - Supports Intel® Extreme Memory Profile (XMP) memory module * Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site * *Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.
Expansion Slots	Intel® Core™ Ultra Processors (Series 2)* 2 x PCIe 5.0 x16 slots*** (supports x16 or x8/x8 modes)** Intel® W880 Chipset** 1 x PCIe 4.0 x16 slot (supports x4 mode)** *Please check the PCIe bifurcation table on the support site **To ensure compatibility of the device installed
GRAPHICS	1 x HDMI™ port** 1 x Intel® Thunderbolt™ 4 port (USB Type-C®) support DisplayPort and Thunderbolt™ video outputs*** 1 x VGA port from AST2600 * Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates. **Supports 4K@60Hz as specified in HDMI 2.1. ***In Thunderbolt™ 4 mode, supports up to 8K@60Hz x1 with DSC, maximum total bandwidth up to 23.8Gbps, for resolution support please check DisplayPort 2.1 specs. In DP alt mode, supports up to UHBR20. **** VGA resolution support depends on processors' or graphic cards' resolution. *****While installing the operating system, please ensure that your monitor is connected to the HDMI port on the back I/O panel or to a discrete graphics card.

Storage	Total supports 4 x M.2 slots and 8 x SATA 6Gb/s ports* Intel® Core™ Ultra Processors (Series 2) • M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode) • M.2_2 slot (Key M), type 2280 (supports PCIe4.0 x4 mode) Intel® W880 Chipset** • M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode) • M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) • SlimSAS_1 connector supports PCIe 4.0 x4 mode or up to 4 SATA devices via an adapter cable. The cable is purchased separately. ** • 4 x SATA 6Gb/s ports • * Intel® Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10, M.2 slot from CPU only supports RAID 0/1/5. **SlimSAS connector connected to a U.2 device via an adapter cable does not support VMD/RST.
Ethernet	• 2 x Intel® 2.5Gb Ethernet • 1 x Realtek 1Gb Ethernet dedicated for AST2600
USB	Rear USB (Total 8 ports) • 1 x Thunderbolt™ 4 port (1 x USB Type-C®) • 1 x USB 20Gbps port (1 x USB Type-C®) • 6 x USB 10Gbps ports (6 x Type-A) Front USB (Total 7 ports) • 1 x USB 20Gbps connector (supports USB Type-C®) • 1 x USB 5Gbps header supports 2 additional USB 5Gbps ports • 2 x USB 2.0 headers supports 4 additional USB 2.0 ports
Audio	Realtek ALC1220P 7.1 Surround Sound High Definition Audio CODEC - Impedance sense for front and rear headphone outputs - Internal audio Amplifier to enhance the highest quality sound for headphone and speakers - Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking - High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in) - Supports up to 32-Bit/192 kHz playback** Audio Features - Audio Shielding - Premium audio capacitors

Back Panel I/O Ports	• 1 x Thunderbolt™ 4 USB Type-C® port • 1 x USB 20Gbps port (1 x USB Type-C®) • 6 x USB 10Gbps ports (6 x Type-A) • 1 x HDMI™ port • 2 x Intel® 2.5Gb Ethernet port • 1 x Realtek 1Gb Ethernet dedicated for AST2600 • 1 x VGA port from AST2600 • 2 x Audio jacks • 1 x BIOS FlashBack™ button • 1 x Clear CMOS button
Remote Managment	Server-grade IPMI remote management and onboard BMC Hardware- and software-level management with a dedicated LAN port link to an onboard AST2600 BMC controller,

Plot No 11(E), KIADB Industrial Area Bashettihalli Village, Kasaba Hobli, Doddaballapura, Bangalore, Karnataka - 561 203
 Email: info@exatron.in; Toll Free : 1800 309 9850
 Website: <https://exatron.in/>

Disclaimer : Copyright © 2023 Exatron Servers Manufacturing Pvt Ltd. All rights reserved. Exatron and Exatron Logo are trademarks of Exatron Servers Manufacturing Pvt Ltd. Other products and company names mentioned herein may be trademarks of their respective companies. Product specifications and images are subject to change without notice.



[Learn more](#) about
our servers



Learn more about our system
management solutions



Search our Resource
Library



Follow us
on [LinkedIn](#)



Contact an Exatron
Technologies Expert
for [Sales and Support](#)