



TWKI7S5A

Media Server AI

- CPU : Intel Core™ i7-12700K -Processor (25M Cache | up to 4.90GHz)
- RAM: 64GB DDR5
- SSD: 2TB M2 2280 NVMe PCI-Express 3.0
- Board Chipset: Intel® W680 Chipset
- Graphics Card: NVIDIA RTX A5000 24GB-GDDR6
- OS: Windows Or Linux



CPU SPECIFICATIONS	
Product Collection	Intel® with 12th Generation Intel® Core™ Processors
Supported Operating Systems	Windows 11 64-bit* Windows 10 64-bit* Red Hat Linux* Ubuntu 20.04 LTS*
CPU Support	Intel® Socket LGA1700 for Intel® Core™ 14 th & 13 th
Internal Drive Form Factor	M.2 SSD
Internal Drives Supported	2 x M.2 slots
TDP	125W
Board Chipset	Intel® W680 Chipset
Processor Included	Intel® Core™ i7-12700K Processor (25M Cache up to 4.90 GHz)
Total Cores	12
Total Threads	20
Lithography	Intel 7
Max Turbo Frequency	4.90 GHz

MEMORY & STORAGE	
Max Memory Size	192 GB
Memory Types	4 x DIMM, Max. 192GB, DDR5 ECC and Non-ECC Un-buffered Memory Dual Channel Memory Architecture
Max Channels	4
Max DIMMs	4
Max Bandwidth	51.2 GB/s
ECC Memory Supported	No
GRAPHICS SPECIFICATIONS	
Integrated Graphics	Yes
Graphics Output	1 x DisplayPort 1 x HDMI® port 1 x VGA port from AST2600
Displays Supported	3
Discrete Graphics Card	Via PCIe add-in card Graphics Card: NVIDIA RTX A5000 GPU memory : 24GB GDDR6 Bus Interface: PCIe 4.0x16 Memory Bus: 384 bit Memory bandwidth: 768 GB/s CUDA Cores: 8192 Tensor Cores: 256 RT Cores: 64 Power consumption: 230 W Power Connectors: 1*8-pin Display connectors: 4* DisplayPort 1.4a Max simultaneous displays: 4* 4096x2160@120Hz, 4* 5120x2880@60Hz, 2* 7680x4320@60Hz

EXPANSION OPTIONS	
PCI Express Revision	Gen5 Gen4
PCI Express Configurations	2xM.2 PCIe X4 Gen4 slots (PCH) M.2 PCIe X4 Gen4 slots
M.2 Card Slot (wireless)	Intel® Wi-Fi 6E AX211
Additional Headers	2x USB2.0 FRONT_PANEL
Expansion Slots	Intel® Core™ Processors (14th & 13th & 12th Gen)* 1 x PCIe 5.0 x16 slot Intel® W680 Chipset 1 x PCIe 4.0 x4 slot 1 x PCIe 3.0 x1 slot
I/O SPECIFICATIONS	
USB Ports	2 x USB 3.2 Gen 2 ports (1 x Type-A, 1 x Type-C®) 4 x USB 3.2 Gen 1 ports (4 x Type-A)
Fan and Cooling related	1 x 4-pin CPU Fan header 1 x 4-pin CPU OPT Fan header 1 x 4-pin W_PUMP+ header 3 x 4-pin Chassis Fan headers
Power related	1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector
Storage related	2 x M.2 slots (Key M) 4 x SATA 6Gb/s ports 1 x SlimSAS port
Total SATA Ports	4
Max SATA Ports	4x6.0 Gb/s
Audio	Realtek 7.1 Surround Sound High Definition Audio CODEC Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking Supports up to 24-Bit/192 kHz playback"
Integrated LAN	2 x Intel® 2.5Gb Ethernet
Integrated Wireless	Intel® Wi-Fi 6E AX211(Gig+)
Integrated Bluetooth	Yes
Bios	256 Mb Flash ROM, UEFI AMI BIOS

ADVANCED TECHNOLOGIES	
Intel® Optane™ Memory Supported	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes
Intel vPro® Platform Eligibility	Yes
Intel® Rapid Storage Technology	Yes
Intel® Virtualization Technology (VT-x)	Yes
Intel® Platform Trust Technology (Intel® PTT)	Yes
SECURITY & RELIABILITY	
Intel vPro® Eligibility	Intel vPro® Platform
Intel® AES New Instructions	Yes
POWER SUPPLIES	
Max Power	550W
Input Voltage	220VAC

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