



# TW KI7SA

**Media Server AI**

- CPU : Intel Core™ i7-12700K-Processor (25M Cache | up to 4.90GHz)
- RAM: 32GB DDR5
- SSD: 2TB M2 2280 NVMe PCI-Express 3.0
- Board Chipset: Intel® W680 Chipset
- Graphics Card: NVIDIA RTX A4000 16GB-GDDR6
- OS: Windows Or Linux



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

<b>MEMORY &amp; STORAGE</b>	
<b>Max Memory Size</b>	192 GB
<b>Memory Types</b>	4 x DIMM, Max. 192GB, DDR5 ECC and Non-ECC Un-buffered Memory Dual Channel Memory Architecture
<b>Max Channels</b>	4
<b>Max DIMMs</b>	4
<b>Max Bandwidth</b>	51.2 GB/s
<b>ECC Memory Supported</b>	No
<b>GRAPHICS SPECIFICATIONS</b>	
<b>Integrated Graphics</b>	Yes
<b>Graphics Output</b>	1 x DisplayPort 1 x HDMI® port 1 x VGA port from AST2600
<b>Displays Supported</b>	3
<b>Discrete Graphics Card</b>	Via PCIe add-in card Graphics Card: NVIDIA RTX A4000 GPU memory : 16GB GDDR6 Bus Interface: PCIe 4.0x16 Memory Bus: 256-bit Memory bandwidth: 448 GB/s CUDA Cores: 6144 Tensor Cores: 192 RT Cores: 48 Power consumption: 140 W Power Connectors: 1*6-pin Display connectors: 4* DisplayPort 1.4a Max simultaneous displays: 4* 4096x2160@120Hz 4* 5120x2880@60Hz 2* 7680x4320@60Hz

EXPANSION OPTIONS	
<b>PCI Express Revision</b>	Gen5   Gen4
<b>PCI Express Configurations</b>	2xM.2 PCIe X4 Gen4 slots (PCH)   M.2 PCIe X4 Gen4 slots
<b>M.2 Card Slot (wireless)</b>	Intel® Wi-Fi 6E AX211
<b>Additional Headers</b>	2x USB2.0   FRONT_PANEL
<b>Expansion Slots</b>	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	
<b>USB Ports</b>	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)
<b>Fan and Cooling related</b>	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
<b>Power related</b>	1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector
<b>Storage related</b>	2 x M.2 slots (Key M) 4 x SATA 6Gb/s ports 1 x SlimSAS port
<b>Total SATA Ports</b>	4
<b>Max SATA Ports</b>	4x6.0 Gb/s
<b>Audio</b>	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"
<b>Integrated LAN</b>	2 x Intel® 2.5Gb Ethernet
<b>Integrated Wireless</b>	Intel® Wi-Fi 6E AX211(Gig+)
<b>Integrated Bluetooth</b>	Yes
<b>Bios</b>	256 Mb Flash ROM, UEFI AMI BIOS

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

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