

The4thware Industrial Board (ATX)

12th Generation Intel Core, Pentium, Celeron Series Platform

T4WS-Q670-ATX



PRODUCT SPECIFICATION

| General | |
|--------------------------|--|
| CPU | Intel® 12 th Generation Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700 |
| Chipset | Intel® Q670 Chipset, TDP 6W |
| Memory | DDR4-3200, 4*U-DIMM, up to 128GB |
| Storage | 4*SATA 3.0 1*M.2 (Key-M, 2242/2280, PCIe x4 Gen4 NVMe/ SATA SSD) |
| Expansion Interface | 2*PCIe x16 Slot (1*PCIe x16 Gen4 or 2*PCIe x8 Gen4) 3*PCIe x4 Slot (PCIe x4 Gen4) 1*PCIe x4 Slot (PCIe x4 Gen3) 1*M.2 (Key-E, 2230, PCIe+USB 2.0+CNVi, Wifi+BT) 1*PCI |
| BIOS | AMI UEFI BIOS |
| System | Windows 10/11, Linux |
| TPM | TPM2.0, Optional |
| I/O Interface | |
| Ethernet | 1*Intel® i225-V 2.5GbE Ethernet Controller, RJ45 1*Intel® i219-V GbE Ethernet PHY, RJ45 |
| Serial | 4*RS232, 1*RS232/RS485/RS422, 1*RS232/RS485 |
| USB | 8*USB 3.0, 5*USB 2.0 |
| Audio | Realtek® Audio HDA Codec, with MIC/Line-out/Line-in |
| PS/2 | 1*PS/2 Port (Keyboard & Mouse) |
| GPIO | 8*Programmable GPIO |
| Others | 1*Case Open Header |
| Display | |
| Display Interface | 1*DVI-D: max resolution up to 1920*1200@60Hz 1*HDMI 1.4b: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 4096*2304@60Hz |
| Multiple Display | Triple |
| Mechanical & Environment | |
| Dimension | 305*244mm |
| Power Input | ATX PSU |
| Temperature | Operation: 0°C~60°C, Storage: -25°C~75°C |
| Relative Humidity | Operation: 10%~90%, Storage: 5%~95%, non-condensing |