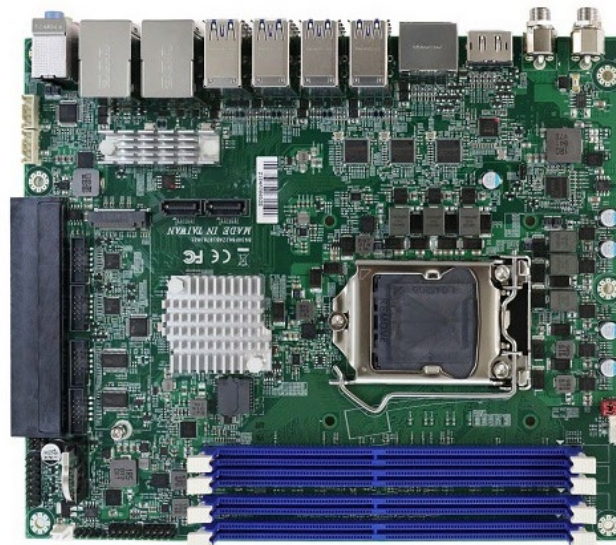


The4thware Industrial Board (ATX)

10th Generation Intel Xeon W, Core, Pentium, Celeron Series Platform

T4WP-Q470E-FATX



PRODUCT SPECIFICATION

Specification	
Processor	Intel® 10th Gen Xeon® W Family/ Core™ i7/i5/i3/ Pentium®/ Celeron® processors up to 10 cores (35W~80W) in LGA1200 package
Chipset	Intel® W480E / Q470E
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	Dual channel DDR4 2400/2666 ECC/Non-ECC SDRAM on four 288-pin Long-DIMM sockets up to 128GB
Storage Devices	2x SATAIII ports (Supports RAID 0,1)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor (Voltage, Fan Speed and Temperature)
Expansion Interface	- 1x PCIe 3.0 x16 or 2x PCIe 3.0 x8 or 1x PCIe 3.0 x8 + 2x PCIe 3.0 x4 (up to 8GT/s) - 1x M.2 Type M 2280
Super I/O	NCT5104D
Audio	Audio Jack on rear I/O with Line-out/ Mic-in with Realtek ALC888S Audio controlle
Ethernet	- Intel®I219LM and Intel®I210AT Ethernet controller - 2x RJ-45+ on rear I/O
Serial Port	- 2x RS232/422/485 ports on 10-pin box header (BIOS configurable) - 2x RS232 ports on 10-pin box header
USB	- 6x USB 3.2 Gen 2 on rear I/O -10x USB 3.2 Gen 1 on rear I/O - 4x USB 2.0 on rear I/O
GPIO	8-bit configurable controlled by embedded controller
Graphic Controller	- Processor integrated UHD Graphics 630 - Supports DirectX12, OpenGL 4.5, OCL2.1, MPEG-2
Display Interface	- 2x DP 1.4 ports on rear I/O, resolution up to 4096x2304 @60Hz - 1x HDMI port on rear I/O, resolution up to 3200x2000 @60Hz
Dimension	9"(L) x 7.5"(W) (FlexATX)
Power Supply	- Dual DC 12V input - Supports AT/ATX mode
Temperature Range	- Operating temperature: 0~60°C - Storage temperature: - 0~80°C
Humidity Range	5~95%, non-condensing