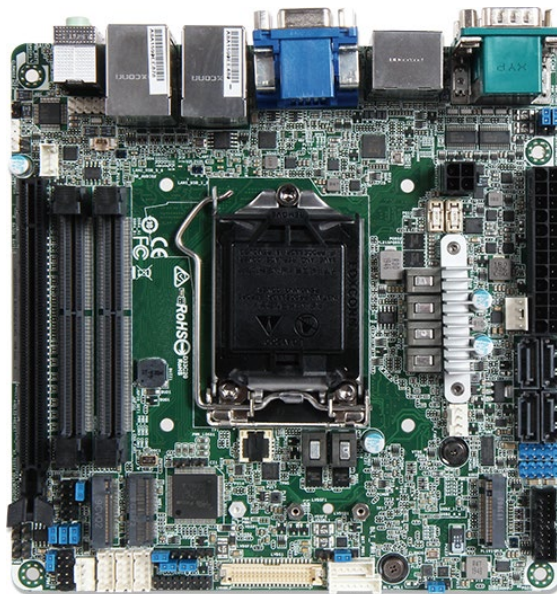


The4thware Industrial Board (MITX)

10th Generation Intel Core Series Platform

T4WP-Q470E-MITX



PRODUCT SPECIFICATION

Specification	
Processor	10th Gen Intel® Core™ Processors CPU in LGA1200 package
Chipset	Intel® Q470E
BIOS	AMI UEFI BIOS
Memory	Up to 64GB DDR4 2400/2666 Non-ECC SDRAM on two SO-DIMM sockets
Storage Devices	4x SATAIII ports (6Gb/s)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor(Voltage, Fan Speed and Temperature)
Expansion Interface	<ul style="list-style-type: none"> - 1x PCIe x16 Gen 3 - 1x M.2 Key E 2230 with PCIe x1, CNVI and USB2.0 for Wireless - 1x M.2 Key M 2242/2260/2280 with PCIe x4 and SATA3 for SSD - 1x M.2 Key B 3042/3052 with USB 3.0 Signal - 1x SIM Card socket
Super I/O	F81966D-I
Audio	Audio Jack on rear I/O with Line-out / Mic-in with Realtek ALC887 Audio controller
Ethernet	<ul style="list-style-type: none"> - Intel® I219LM and Intel® I225LM Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	<ul style="list-style-type: none"> - 2x RS-232/422/485 ports on rear I/O - 3x RS-232 ports on board header
USB	<ul style="list-style-type: none"> - 4x USB 3.2 Gen 1 on rear I/O - 2x USB 3.2 Gen 1 on board header - 4x USB 2.0 on board header
GPIO	8-bit configurable controlled by embedded controller
Graphic Controller	Intel® UHD 630 Graphic engine supports DirectX 12, OpenGL 4.5
Display Interface	<ul style="list-style-type: none"> - 1x HDMI 2.0a on rear I/O, resolution up to 4096x2160 @60Hz - 1x DisplayPort 1.2 on rear I/O, resolution up to 4096x2160 @60Hz - 1x VGA on rear I/O, resolution up to 1920x1200 @60Hz - 1x LVDS connector on board, resolution up to 1920x1200 @60Hz
Dimension	170mm(L) x 170mm(W)
Power Input	ATX
Environment	<ul style="list-style-type: none"> - Operation temperature: 0~60°C - Storage temperature: -20~80°C - Relative humidity: 5~90% non-condensing