

# The4thware Industrial Board (MITX)

Intel Atom X7000E Series Platform

T4WP-X7000E-NITX



## PRODUCT SPECIFICATION

Specification	
Processor	<ul style="list-style-type: none"> <li>- Intel Atom<sup>®</sup> x7000E Series Processors (up to 12W)</li> <li>- Intel<sup>®</sup> Processor N-Series</li> <li>- Intel<sup>®</sup> Core<sup>™</sup> i3 N-Series Processors (up to 15W)</li> </ul>
BIOS	AMI UEFI BIOS
Memory	<ul style="list-style-type: none"> <li>- 1x non-ECC DDR4 3200MT/s SO-DIMM up to 16GB</li> <li>- Support in-band ECC</li> </ul>
Storage Devices	<ul style="list-style-type: none"> <li>- 1x SATA III</li> <li>- 1x M.2 B Key 2280(SATA III)</li> <li>- 1x Micro SD socket</li> </ul>
Watchdog Timer	Programmable Watchdog Timer, time out period from 0.5 sec to 254.5 secs
Hardware Monitoring	System Monitor (Voltage, Fan speed, Temperature)
Expansion Interface	<ul style="list-style-type: none"> <li>- 1x M.2 E Key 2230</li> <li>- 1x M.2 B Key 3052/2280 (shared with M.2 2280 SATAIII socket)</li> </ul>
Audio	<ul style="list-style-type: none"> <li>- HDA controller integrated in Intel<sup>®</sup> processor technology</li> <li>- Realtek ALC897 HDA codec</li> <li>- Audio jack on rear I/O (line-out)</li> <li>- On board pin header (line-in, line-out, mic-in)</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>- 2x 2.5GbE via Intel<sup>®</sup> Ethernet Controller I225-LM</li> <li>- 2x RJ45 connectors on rear I/O</li> </ul>
Serial Port	- 1x RS-232/422/485 port (selectable via BIOS)
USB	<ul style="list-style-type: none"> <li>- 2x USB 3.2 Gen 2 on rear I/O</li> <li>- 2x USB 3.2 Gen 2 on board pin header</li> <li>(1x USB 3.2 Gen 2 shared with M.2 B key socket)</li> </ul>
Others	<ul style="list-style-type: none"> <li>- TPM 2.0 on board</li> <li>- 8x GPIO</li> <li>- Support real-time computing - Intel<sup>®</sup> TCC &amp; TSN (only selected SK Us)</li> </ul>
Graphic Controller	Intel <sup>®</sup> UHD Graphics Gen12 with up to 32 Eus
Display Interface	<ul style="list-style-type: none"> <li>- LVDS: 1x LVDS on board connector (Dual channel, 24bit, 1920x1200 @60Hz)</li> <li>- HDMI: 1x HDMI port on rear I/O (HDMI 2.0b, 4096x2160 @60Hz)</li> <li>- DP: 1x DP port on rear I/O (DP 1.4, 4096x2304 @60Hz)</li> </ul>

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Dimension	120mm(L) x 120mm(W), 4.72"(L) x 4.72"(W)
Power Supply	DC 12V input
Environment	<ul style="list-style-type: none"><li>- Operating temperature: 0°C~60°C</li><li>- Storage Temperature: -40°C~85°C</li><li>- Relative Humidity: 5~95%, non-condensing</li></ul>
MTBF	TBD