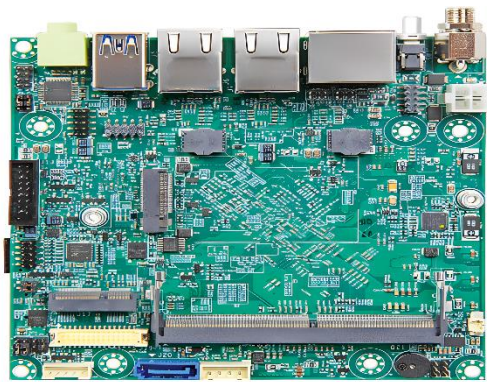


NTX-27001

Intel Atom® Series SoC based NANO ITX Board



FEATURES

- Support Intel Atom® x7000RE Series SoC.
- Up to 16GB DDR4 3200MT/s non-ECC SO-DIMM.
- Support multiple displays via HDMI, DP, LVDS.
- High speed I/O with dual 2.5GbE and four USB 3.2 Gen2.
- Multiple expansions with M.2 E Key and B Key.
- Support onboard TPM 2.0.
- Support a wide -40°C to 85°C industrial temperature range.

NTX-27001	
PROCESSOR	Intel Atom® x7000RE Series Processor (up to 12W)
BIOS	AMI UEFI BIOS
MEMORY	1x non-ECC DDR4 3200MT/s SO-DIMM up to 16GB, Support In-Band ECC
STORAGE DEVICES	1x SATA III, 1x M.2 B Key 2280(SATA III), 1x Micro SD socket
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	1x M.2 E Key 2230, 1x M.2 B Key 3052/2280 (share with M.2 2280 SATAIII socket)
AUDIO	HDA controller integrated in Intel® SoC, Realtek ALC897 HDA codec, Audio jack on rear I/O (line-out), On board pin header (line-in, line-out, mic-in)
ETHERNET	2x Intel® 2.5GbE Controller (I226-IT), 2x RJ45 connectors on rear
SERIAL PORT	1x RS-232/422/485 port (selectable via BIOS)
USB	2x USB 3.2 Gen2 on rear I/O, 2x USB 3.2 Gen2 on board pin header (1x USB 3.2 Gen2 share with M.2 B key socket)
GRAPHIC CONTROLLER	Intel® UHD Graphics Gen12 with up to 32 EUs
DISPLAY INTERFACE	1x LVDS on board connector (Dual channel, 24bit, 1920x1200 @60Hz) 1x HDMI port on rear I/O (HDMI 2.0b, 4096x2160 @ 60Hz) 1x DP port on rear I/O (DP 1.4, 4096x2304 @ 60Hz)
DIMENSION	120mm(L) x 120mm(W), 4.72"(L) x 4.72"(W)
POWER SUPPLY	DC 12V input
OPERATING TEMPERATURE	-40°C~85°C
STORAGE TEMPERATURE	-40°C~85°C
RELATIVE HUMIDITY	5~95%, non-condensing
MTBF	TBD
OTHERS	TPM 2.0 on board 8x GPIO Support real-time performance, Intel® TCC & TSN (selected SKUs)
CERTIFICATIONS	CE, FCC
WARRANTY	2 Years