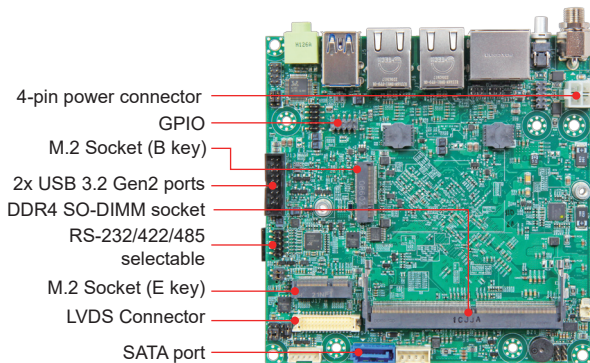
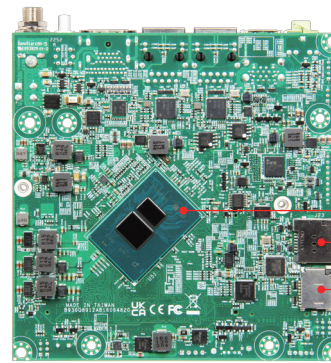
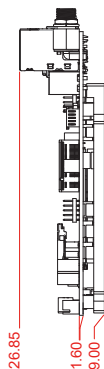


# NANO-6064-ASL

Intel Atom® x7000RE Series SoC based NANO-ITX Board with Triple Display, 2.5GbE LAN, USB 3.2 Gen2, M.2, SATA III



- 4-pin power connector
- GPIO
- M.2 Socket (B key)
- 2x USB 3.2 Gen2 ports
- DDR4 SO-DIMM socket
- RS-232/422/485 selectable
- M.2 Socket (E key)
- LVDS Connector
- SATA port



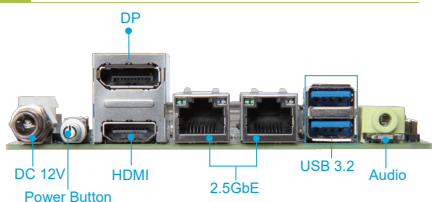
- Intel Atom® x7000RE Series Processor
- Nano SIM socket
- Micro SD socket

NANO-6064-ASL adopts the latest Intel Atom® x7000RE Series Processor. The processor not only supports industrial temperature from -40°C to 85°C but operates with low-power consumption. NANO-6064-ASL is suitable to build efficient solution for IoT applications, such as medical, retail, digital signage.

## FEATURES

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

## REAR I/O



## ORDERING GUIDE

AB1-3S65	(R).NANO-6064-x7213RE Nano-ITX ESB. Intel Amston Lake SoC.w/DDR4 SO-DIMM/LVDS/HDMI/DP/dual 2.5 GbE LAN/ micro SD
AB1-3S64	(R).NANO-6064-x7211RE Nano-ITX ESB. Intel Amston Lake SoC.w/DDR4 SO-DIMM/LVDS/HDMI/DP/dual 2.5 GbE LAN/ micro SD
AB1-3S63	(R).NANO-6064-x7433RE Nano-ITX ESB. Intel Amston Lake SoC.w/DDR4 SO-DIMM/LVDS/HDMI/DP/dual 2.5 GbE LAN/ micro SD
AB1-3S62	(R).NANO-6064-x7835RE Nano-ITX ESB. Intel Amston Lake SoC.w/DDR4 SO-DIMM/LVDS/HDMI/DP/dual 2.5 GbE LAN/ micro SD

## GENERAL

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)

## I/O INTERFACE

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 I/O
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 Gen1 on board pin header (1x USB 3.2 Gen1 share with M.2 B key socket)
Others	- TPM 2.0 on board - 8x GPIO - Support Real-time Performance - Intel® TCC & TSN(only selected skus)

## DISPLAY

Graphic Controller	Intel® UHD Graphics Gen12 with up to 32 EUs
Display Interface	- LVDS: 1x LVDS on board connector (Dual channel, 24bit, 1920x1200 @60Hz) - HDMI: 1x HDMI port on rear I/O (HDMI 2.0b, 4096x2160 @ 60Hz) - DP: 1x DP port on rear I/O (DP 1.4, 4096x2304 @ 60Hz)

## Mechanical & Environment

Dimension	120mm(L) x 120mm(W), 4.72"(L) x 4.72"(W)
Power Supply	DC 12V input
Environment	- Operating temperature: -40°C~85°C - Storage Temperature: -40°C~85°C - Relative Humidity: 5~95%, non-condensing
MTBF	TBD



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