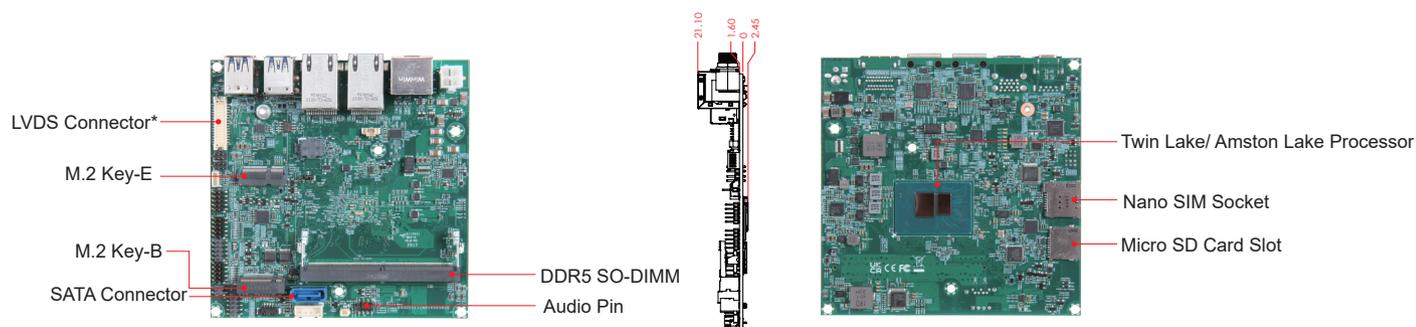


# NANO-6065

Intel Twin Lake & Amston Lake SKU based NANO-ITX Board with Triple Display, 2.5GbE LAN, USB 3.2 Gen2, M.2, SATA III



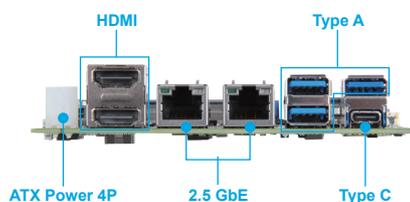
## FEATURES

- Support Twin Lake/ Amston Lake platform
- Up to 16GB DDR5 4800MT/s SO-DIMM
- Support multiple display via HDMI, DP from Type-C , \*LVDS
- High speed I/O with dual 2.5GbE and four USB 3.2 Gen 2
- Multiple expansions with M.2 E Key and B Key
- Support on board TPM 2.0

## General

Processor	- Intel® Core 3 processor N355 - Intel® processor N150 - Intel Atom x7835RE
BIOS	AMI UEFI BIOS
Memory	- 1x DDR5 4800MT/s SO-DIMM up to 16GB - Support In-Band ECC
Storage Devices	- 1x 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 (USB/ PCIe) - 1x M.2 B Key 3052/2280 (USB/ PCIe/ SATA)

## REAR I/O



## I/O INTERFACE

Audio	- HDA controller integrated in Intel® SoC - Realtek ALC897 HDA codec - On board pin header (line-in, line-out, mic-in)
Ethernet	- 2x Intel® 2.5GbE Controller - 2x RJ45 connectors on rear I/O
Serial Port	- 2x RS-232/422/485 on board pin header (selectable via BIOS)
USB	- 3x USB 3.2 Gen2 Type A on rear I/O - 1x USB 3.2 Gen2 Type C on rear I/O (Supports DP 1.4a display output / USB device mode)
Other	- TPM 2.0 on board - 8x GPIO

## Ordering Guide

AB1-3T71	(R).NANO-6065-N355. Nano-ITX ESB. Intel Twin Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI/ dual 2.5 GbE LAN/ micro SD/ SIM card/ 12-24V/ TYPE C
AB1-3T83	(R).NANO-6065-N150. Nano-ITX ESB. Intel Twin Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI/ dual 2.5 GbE LAN/ micro SD/ SIM card/ 12-24V/ TYPE C
AB1-3T84	(R).NANO-6065-X7835RE. Nano-ITX ESB. Intel Amston Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI/ dual 2.5 GbE LAN/ micro SD/ SIM card/ 12-24V/ TYPE C

## DISPLAY

Graphic Controller	Intel® Graphics with up to 32 EUs
Display Interface	- HDMI: 2x HDMI port on rear I/O (HDMI 2.0b, 4096x2160 @ 60Hz) - DP: Type C port on rear I/O (DP 1.4, 4096x2304 @ 60Hz) - *LVDS: 1x LVDS on board connector (*Optional, available upon request with MOQ requirement)

## Mechanical/Environment

Dimension	120mm(L) x 120mm(W), 4.72"(L) x 4.72"(W)
Power Supply	DC 12-24V input
Environment	- Operating temperature: 0°C~60°C (SKU:N355 & N150) Operating temperature: -40°C~85°C (SKU:X7835RE) - Storage Temperature: -40°C~85°C - Relative Humidity: 5~95%, non-condensing
MTBF	TBD

