

NANO-6063

Intel Atom® x6000E Series SoC based NANO-ITX Board with Triple Display, GbE LAN, USB 3.2 Gen 2, M.2, SATA III, Mini-PCle, and mSATA

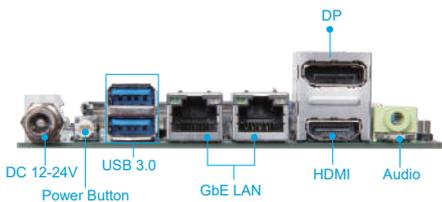


NANO-6063 is based on Intel® Atom® Elkhart Lake family processor. This processor not only supports the range of industrial temperature standard which is from -40°C to 85°C but operates in certain 12W with low-power consumption. Succeeding previous version, NANO-6062, the flexibility of systematic expansions is suitable for Medical, Panel PC and Kiosk. To support Intel® I225 Gigabit Ethernet is fit in Industrial Automation, and Digital Signage application.

FEATURES

- Supports Intel® Atom® Dual/Quad Elkhart Lake Family SoC
- Delivers up to 32 GB maximum DDR4 3200 non-ECC SO-DIMM
- Supports multiple display by VGA, DP and HDMI
- High speed dual Gigabit Ethernet based on PCIe x1, high bandwidth I/O interface
- Supports Real-Time Performance: TSN, TCC
- Support on board TPM2.0

REAR/I/O



ORDERING GUIDE

AB1-3K29Z	(R)NANO-6063 Nano-ITX ESB. Intel® Elkhart Lake SoC.w/ DDR4 SO-DIMM/VGA/HDMI/DP/Dual GbE LAN/ micro SD
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GENERAL

Processor	- Intel® Atom™ Dual/Quad Elkhart Lake x6000 series SoC - Supports Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and Speed Step Technology (depends on CPU sku)
BIOS	AMI UEFI BIOS
Memory	- Supports up to 32 GB DDR4 3200 MT/s SO-DIMM memory - Supports non-ECC
Storage Devices	- 1x SATA III - 1x mini-PCle socket support mSATA
Watchdog Timer	Programmable watchdog timer, time out period from 0.5 sec to 254.5 secs
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)

I/O INTERFACE

Expansion Interface	1x M.2 type E
Audio	- Intel® PCH built-in High Definition - Realtek ALC HDA codec 897, one on board audio pin header
Ethernet	- 1x Intel® I210 GbE controller - 1x GPY-215 controller - 2x RJ45 connectors on rear I/O - Dual RJ-45 connectors with two LED indicators
Serial Port	- 1x RS-232/422/485 ports selectable - LPC to COM port IC: Fintek F81216DG
USB	- 4x USB 3.1 (Gen2) ports (2 ports on board/ 2 ports in rear I/O) - 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges

DISPLAY

Others	- TPM 2.0 on board - Supports Real-time Performance - Intel® TCC & TSN
Graphic Controller	Intel® Graphics Gen 11 gfx

Mechanical & Environment

Display Interface	- HDMI on board: 4K@ 60Hz - DP on board: 4096x2160@ 60Hz
Dimension	120mm(L) x 120mm(W),4.72"(L) x 4.72"(W)
Power Supply	DC 12V input
Environment	- Working Temperature:-40°C to 85°C - Storage Temperature: -40°C to 85°C - Relative Humidity: 5~95%, non-condensing



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