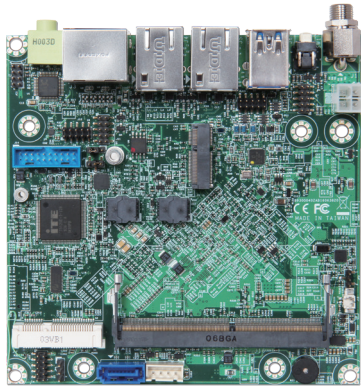
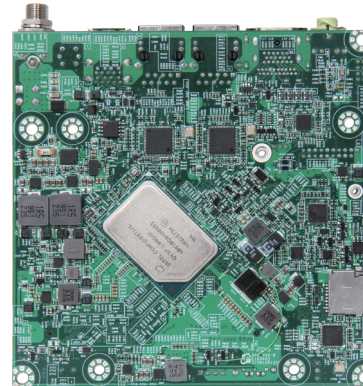


NANO-6063

Intel Atom® x6000E Series SoC based NANO-ITX Board with Triple Display, 2.5GbE LAN, USB 3.2 Gen 2, M.2, SATA III, Mini-PCIe, and mSATA

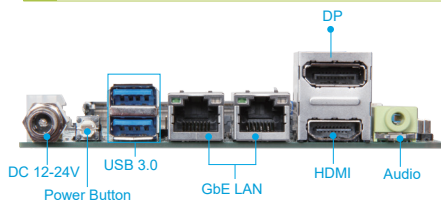


The NANO-6063 is based on the Intel Atom® Elkhart Lake family processor. This processor not only supports industrial temperatures ranging from -40°C to 85°C but also operates at a low power consumption of 12W. Succeeding the previous version, the NANO-6063 offers flexibility in systematic expansions, making it suitable for medical, panel PC, and kiosk applications. The dual 2.5GbE LAN (GPY-215 & Intel® I226IT) design is ideal for industrial automation and digital signage applications.

FEATURES

- Intel Atom® x6000E SoC (Formerly Elkhart Lake)
- Supports up to 32GB of DDR4 3200 MT/s non-ECC SO-DIMM
- Triple Display by DP, HDMI and VGA
- High speed dual 2.5 Gigabit Ethernet, high bandwidth I/O interface
- Supports Real-Time Performance: TSN, TCC
- Support a wide -40°C to 85°C industrial temperature range
- On board TPM 2.0

REAR/I/O



ORDERING GUIDE

AB1-3P49	(R).NANO-6063-I226-X6425E Nano-ITX ESB. Intel Elkhart Lake SoC.x6425E/ DDR4 SO-DIMM/VGA/HDMI/DP/dual 2.5GbE LAN/micro SD
AB1-3P50	(R).NANO-6063-I226-x6413E Nano-ITX ESB. Intel Elkhart Lake SoC.x6413E/ DDR4 SO-DIMM/VGA/HDMI/DP/dual 2.5GbE LAN/micro SD
AB1-3P51	(R).NANO-6063-I226-x6211E Nano-ITX ESB. Intel Elkhart Lake SoC.x6211E/ DDR4 SO-DIMM/VGA/HDMI/DP/dual 2.5GbE LAN/micro SD
AB1-3P52	(R).NANO-6063-I226-x6425RE Nano-ITX ESB. Intel Elkhart Lake SoC.x6425RE

GENERAL

Processor	Intel Atom® Dual/Quad-core x6000E family SoC (up to 12W)
BIOS	AMI UEFI BIOS
Memory	DDR4 3200 MT/s Non-ECC SO-DIMM up to 32GB
Storage Devices	- 1x SATA III port - 1x mSATA socket (Choose either mSATA or mini-PCIe by BIOS) - 1x Micro-SD socket
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor (Voltage, Fan Speed and Temperature)
Expansion Interface	- 1x M.2 Type E socket - 1x full size mini-PCIe socket (Choose either mSATA or mini-PCIe by BIOS)

I/O INTERFACE

Audio	- High Definition Audio integrated in Intel® SoC - Realtek ALC892 HDA codec - Audio jack on rear I/O with Line-out and on board pin header with Line-in, Line-out, and Mic-in
Ethernet	- 1x Intel® 2.5GbE controller - 1x GPY-215 controller - 2x RJ45 connectors on rear I/O
Serial Port	1x RS-232/422/485 on board connector (selected by BIOS)
USB	- 2x USB 3.2 Gen 2 ports on rear I/O (10Gbps) - 2x USB 3.2 Gen 2 ports on board with header (10Gbps)
GPIO	8-bit configurable controlled by embedded controller
Other	TPM 2.0 on board

DISPLAY

Graphic Controller	- Intel® Gen 11 Graphics - Supports Real-time performance with Intel® Time Coordinated Computing (TCC) and Time Sensitive Networking (TSN)
Display Interface	- 1x HDMI port on rear I/O, up to 4K resolution - 1x DP port on rear I/O, up to 4K resolution - 1x VGA on board connector

Mechanical & Environment

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

