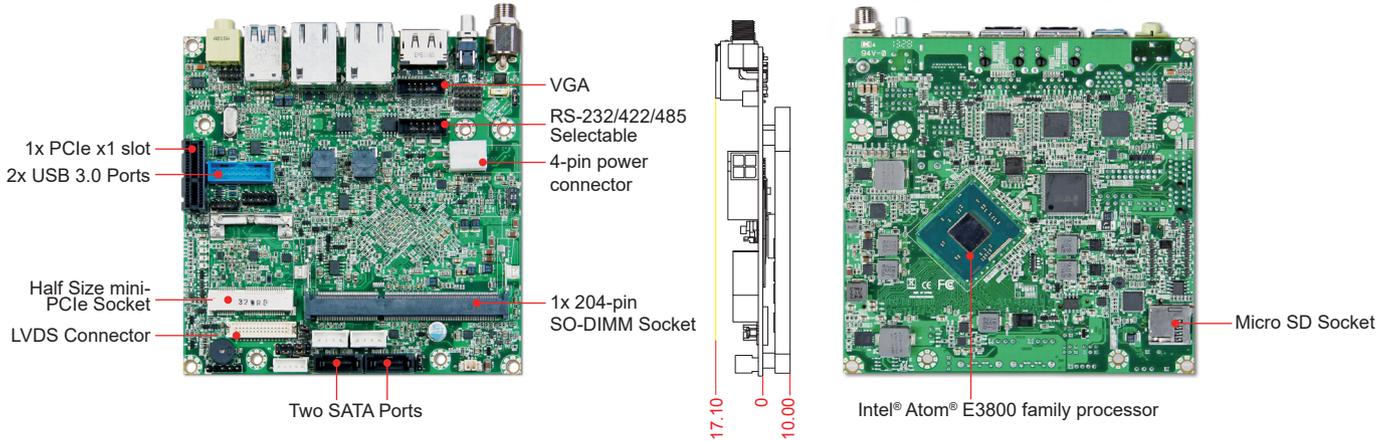


# NANO-6060

Intel® Atom® E3800 family SoC based NANO-ITX. Board with Dual displays, Gigabit Ethernet, Audio, USB 3.0, micro SD and SATA



NANO-6060 build with Intel® Atom® processor E3800 family that not only outputs under 10W applications, but also supports a wide industrial temperature from -40°C to 85°C. With its superior up to Quad Core processing power and high capability. Portwell have taken advantage of such technology to furnish a series of products that can meet multiple industrial requirements such as fanless, cost-effective of CPU performance or compact systems.

## FEATURES

- Intel® Bay Trail-I SoC based platform
- 1x 204-pin SO-DIMM supports DDR3L up to 4GB
- Multiple displays by VGA, DP, dual channel 24 bit LVDS
- Supports 2x SATA II ports, 1x micro SD socket, and 4x USB 3.0 ports
- 1x half size mini-PCIe socket and PCIe x1 slot for expansion
- Supports DC 12V input

## REAR I/O



## ORDERING GUIDE

<b>AB1-3A45</b>	(R).NANO-6060- E3815 Nano-ITX ESB. Intel® Atom® E3815 1.46GHz Single Core.w/DDR3L SO-DIMM/VGA/24bit LVDS/DP/single GbE LAN/micro SD
<b>AB1-3A46</b>	(R).NANO-6060- E3827 Nano-ITX ESB. Intel® Atom® E3827 1.75GHz Dual Core.w/DDR3L SO-DIMM/VGA/24bit LVDS/DP/dual GbE LAN/micro SD
<b>AB1-3A47</b>	(R).NANO-6060- E3845 Nano-ITX ESB. Intel® Atom® E3845 1.91GHz Quad Core.w/DDR3L SO-DIMM/VGA/24bit LVDS/DP/dual GbE LAN/micro SD

## PACKING LIST

- One NANO-6060 NANO-ITX Main Board
- One Passive Heat Spreader
- One Installation CD

## GENERAL

Processor	- Intel® Atom® E3800 family processor - Cache up to 2MB (for Quad Core) - DPM (Defect Per Million devices) <50 - Support Intel® VT-x technology
BIOS	Phoenix EFI BIOS
Memory	1x DDR3L 1066/1333 MT/s SO-DIMM up to 4GB
Storage Devices	- 2x SATA II - 1x Micro-SD socket
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore, 12V, 5V, 3.3V, 1.35V)
Expansion Interface	- 1x PCIe x1 slot - 1x half size mini-PCIe slot

## I/O INTERFACE

Audio	- HDA controller 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	- Dual Intel® I210IT Gigabit Ethernet controller (for E3827/ E3845 only) - 2x RJ45 connectors on rear I/O (for E3827/ E3845 only) - Single Intel® I210IT Gigabit Ethernet controller and 1xRJ45 connector on rear I/O for E3815
Serial Port	1x RS-232/422/485 on board connector (selected by bios)
USB	- 2x USB 3.0 ports on rear I/O - 2x USB 2.0 and 2x USB 3.0 ports on board with pitch 2.0 header
GPIO	8bit configurable controlled by embedded controller

## DISPLAY

Graphic Controller	- Intel® Gen7 graphic engine supports DirectX 11, OpenGL® 4.0 - Video decode hardware acceleration supports for H.264, MPEG2, MVC, VC-1, WMV9 and VP8 formats
Display Interface	- LVDS: Dual channel 24bit LVDS on board connector, resolution up to 1920x1200 @60Hz - VGA: One on-board DB-15 connector, resolution up to 1920x1200 (WUXGA) - DP: One DP port on rear I/O, resolution up to 2560x1600

## 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~80°C - Storage temperature: -40°C~80°C - Relative humidity : 5%~95%, non-condensing
Certification	CE, FCC Class A
MTBF	Over 100,000hrs at 55°C

