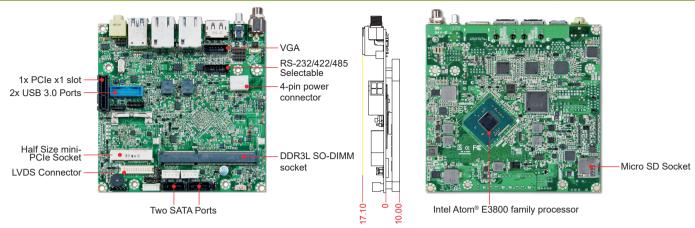
# **NANO-6060**

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 for fan-less 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 Trial-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-PCle socket and PCle x1 slot for expansion
- Supports DC 12V input

## REAR I/O



## **ORDERING GUIDE**

AB1-3A45	(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
AB1-3A46	(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
AB1-3A47	(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**

BIOS

Processor - Intel Atom® E3800 family processor
- Cache up to 2MB (for Quad Core)
- DPM (Defect Per Million devices) <50

Phoenix EFI BIOS

- Support Intel® VT-x techology

Memory 1x DDR3L 1066/1333MT/s non-ECC 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 PCle x1 slot

- 1x half size mini-PCle 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 - 2x Dual Intel® I210IT Gigabit Ethernet controller (for E3827/ E3845 only)

- 2x RJ45 connectors on rear I/O (for E3827/ E3845 only)

- 1x Single Intel® I210IT Gigabit Ethernet controller and 1xRJ45 connector on rear I/O

TOT 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

and veo ionna

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~85°C - Storage temperature: -40°C~85°C

- Relative humidity : 5%~95%, non-condensing

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CE.F.CC Class B

Certification CE,FCC Class B

MTBF Over 100,000hrs at 55°C

















