



Main Features

- On-board Intel® Celeron® N3060 processor, w/ DDR3L SO-DIMM
- Support multiple display from VGA, DVI-D, LVDS
- Support 1 x SATAIII 6.0Gb/s, 1 x M.2 M-key, 1 x mini-PCIe, 4 x USB 3.0, 3 x USB 2.0 ports; 2 x RTL GbE LAN, 5 x Series ports, 1 x PCIe x1, 1 x PS/2 header, 1 x 8-bit DIO, HD Audio and 1 x Speaker out
- DC input +12V
- Fanless
- Optional: Wi-Fi module/M.2 storage/TPM module

Product Overview

NEX 621A is a Mini-ITX board, which Intel® Celeron® N3060 processor (codenamed Braswell) has a lower TDP 6W, supports multi-displays VGA/DVI-D/Dual channel 18/24-bits LVDS. With single channel DDR3L non-ECC SO-DIMM maximum memory size is up to 8GB.

The NEX 621A support 1 x SATAIII 6.0Gb/s, 1 x M.2 M-key, 1 x mini-PCIe, 4 x USB 3.0, 3 x USB 2.0 ports; 2 x RTL GbE LAN, 5 x Series ports, 1 x PCIe x1, 1 x PS/2 header, 1 x 8-bit DIO, HD Audio and 1 x Speaker out.

NEX 621A features versatile displays, rich I/O support for multimedia as well as critical mission of industrial embedded applications, such as kiosk, digital signage, gaming, automation applications...etc.

Specifications

CPU Support

- Intel® Celeron® N3060 processor, (2C @ 2.48GHz CPU (burst mode), 320/600MHz GFX (turbo), ~6W TDP)

Display

- 1 x DVI-D connector (resolution up to 1920x1200@60Hz)
- 1 x VGA connector (resolution up to 1920x1200@60Hz)
- 1 x LVDS connector (resolution up to 1920x1080@60Hz)

System

- 1 x DDR3L 1600 MHz SO-DIMM, max. 8GB, non-ECC
- 1 x SATAIII 6Gb/s connector
- 1 x SATA power connector
- 2 x USB 3.0 + LAN (RJ45) connector
- 2 x USB 2.0 header
 - Support additional 3 USB ports (2 x 2*5-pin, p=2.00mm)
- 1 x PS/2 header
- 5 x Serial ports
 - 3 x RS232 (COM1 (DB9), COM3~5 box header)
 - 1 x RS232/485/422 & +5V/RI/+12V select by COM2 (DB9)
- 1 x 8-bit DIO header (4in/4out)
- Watchdog timer (1~255 step by software program)
- 1 x TPM connector
- Support Realtek HD AUDIO:
 - 1 x Dual deck jack (Line-out, Mic-in)
 - 1 x Speaker out header (4Ω/2W)

- 1 x Lockable DC jack, 1 x ATX 4-pin power connector

BIOS

- 64Mbit Flash ROM x 1, AMI BIO

Storage device

- 1 x SATAIII 6.0Gb/s
- 1 x M.2 M-key (2242/2280, default: 2280)

Expansion

- 1 x PCIe 2.0 [x1] slot
- 1 x mini-PCI express slot (full size, support PCIe/USB interface)

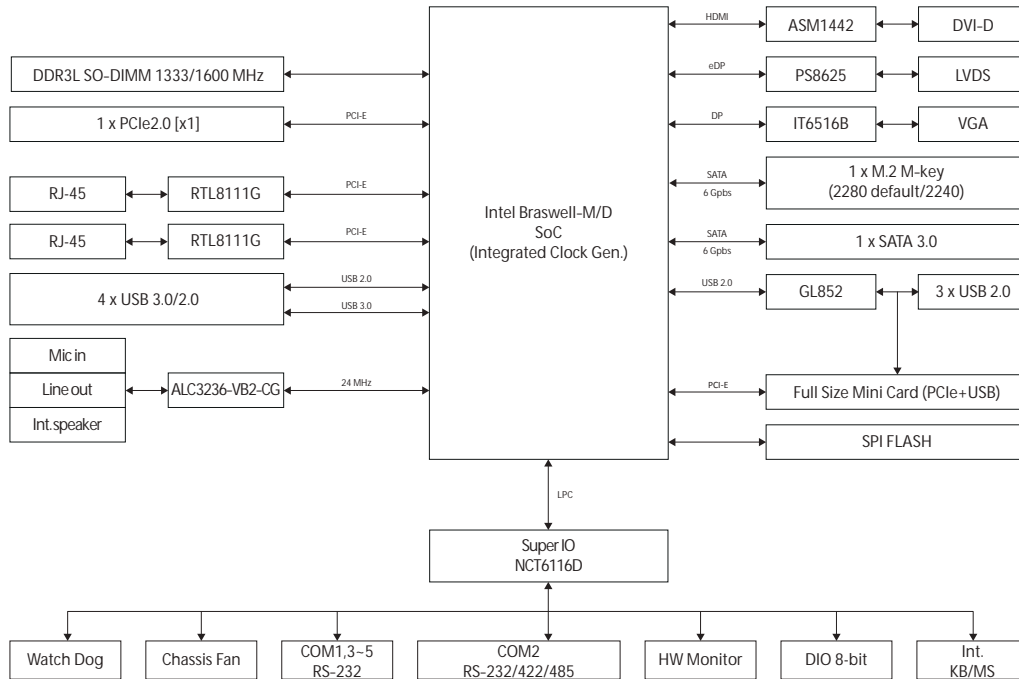
Power Requirements

- 12V DC input
 - DC lockable jack or ATX 4-pin power connector
- Power mode AT/ATX (jumper selection)

Rear I/O

- 1 x Lockable DC power jack
- 2 x Serial (DB9) ports
- 1 x DVI-D connector
- 1 x VGA connector
- 2 x USB 3.0 + LAN (RJ45) connector
- 1 x Dual deck jack

Block Diagram



Mechanical & Environment

- Operating temperature : 0°C~60°C
- Storage temperature : -20°C~80°C
- Relative humidity : operating 10%~90%, non-condensing

Dimensions

- Mini-ITX 6.7" x 6.7"(170mm x 170mm)

Operating System

- Windows® 7 32/64-bit, 8.1, 10 64-bit & Fedora

Certifications

- EMC & Safety
- CE/FCC Class A

Ordering Information

Barebone

- **NEX 621A-N3060 (P/N: 10G00062100X0)**
On-board Intel® Celeron® N3060 processor, w/ DDR3L SO DIMM, support multiple display from VGA, DVI-D, LVDS, 1 x SATAIII 6.0Gb/s, 1 x M.2 M-key, 1 x mini-PCIe, 2 x LAN, 4 x USB 3.0, 3 x USB 2.0, 5 x COM, HD Audio, DC input

Optional Accessories

- **12V, 60W power adapter w/o power cord (P/N: 7400060025X00)**
- **COM port cable(P/N: 603COM0093X00)**
- **USB cable (P/N: 603USB0085X00)**
- **PS/2 cable (P/N: 603PS20006X00)**