



Main Features

- Intel® Celeron Processor J1900
- Integrated Intel® Gen7 Intel® Graphics DX 11*, OGL3.2
- Supports Dual Channel DDR3 1333MHz, 2 x SO-DIMM, up to 8GB system memory
- 3 x COM (RS-232/422/485), 2 x COM (RS-232); 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS; 4 x USB 3.0, 6 x USB 2.0, 2 x SATA2; Gigabit LAN : 2 x Realtek Lan
- 9~19 V DC-in or ATX Power Support

Product Overview

NEX 617 is the NEXCOM most advanced flagship Mini-ITX form factor powered by onboard Baytrail family Intel® J1900 Celeron® 4-core processor that integrates with 24/48-bit LVDS & upto 8GB DDR3/L memory & Rich I/Os.

NEX 617 represents a powerful model for intensive multi-media & high computing base application which can be embedded into fan-less or 1U/2U rack mounted chassis as customized system—ready PBOX solution. The wide range 9~19 V DC-in or ATX power makes the power input selection be more flexible

Specifications

Form Factor

- Dimensions: Mini-ITX (6.7-in x 6.7-in)

Processor System

- CPU: Intel® Celeron® Processor J1900
- Core Number: 4
- Max Speed: (By CPU)
- L3 Cache: 2MB
- Chipset: N/A
- BIOS: UEFI

Expansion Slot

- PCI: 0
- Mini-PCIe: 1 (Full Size)
- mSATA: 1
- PCIe: 1
- CFast Card Socket: 0

Memory

- Technology: Dual Channel DDR3 1333 MHz SDRAM
- Max.: 8GB
- Socket: 2 x SO-DIMM

Graphics

- Controller: Intel® Gen7 Intel® Graphics DX 11*, OGL3.2
- VRAM: Shared Memory
- VGA: Supports max. resolution 1920x1200
- LVDS: Dual Channel 24-bit, max resolution 1920x1200@60Hz
- HDMI: Supports HDMI 1.3a, max resolution 1920x1200

- DVI: No
- DisplayPort: No
- MultiDisplay: Yes (Dual Display)

Ethernet

- Ethernet: 10/100/1000 Mbps
- Controller: GbE LAN: 2 x Realtek RTL8111G-CG
- Connector: 2 x RJ-45

SATA

- Max Data Transfer Rate: SATA2 (3.0Gb/s)

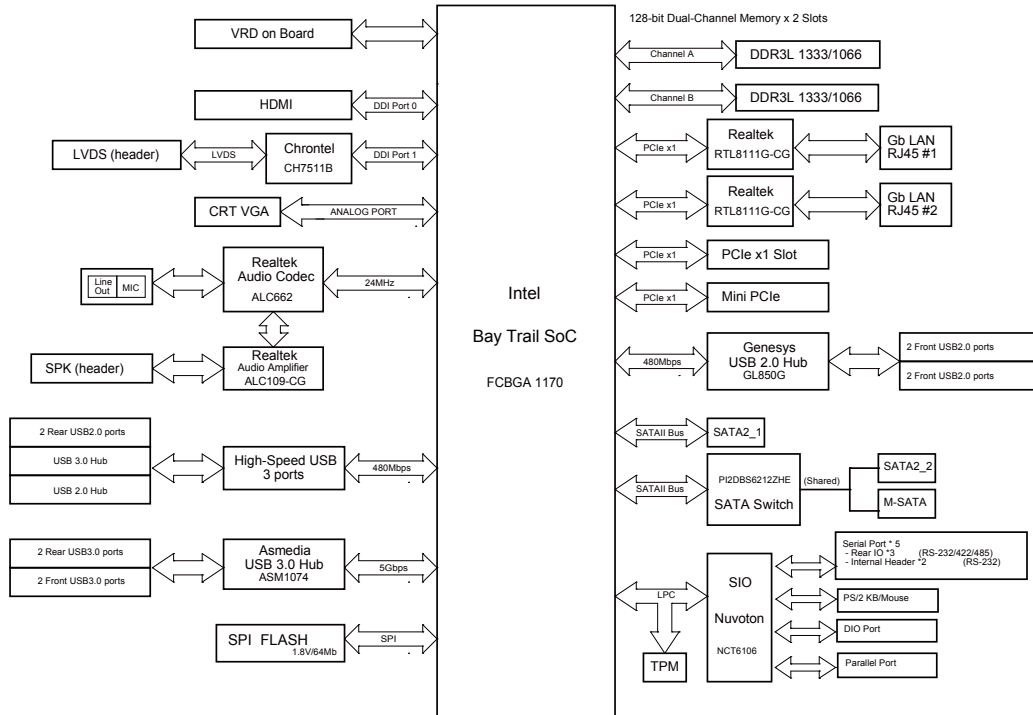
Rear I/O

- VGA: 1
- DVI: 0
- HDMI: 1
- DisplayPort: 0
- Ethernet: 2
- USB: 4 (2 x USB 3.0, 2 x USB 2.0)
- Audio: 2 (Mic-in, Line-out)
- Serial: 3 (RS-232/422/485)
- eSATA: 0
- PS2: 2 (1 x keyboard, 1 x mouse)

Internal Connector

- USB: 6 (2 x USB 3.0, 4 x USB 2.0)
- LVDS / inverter: 1/1
- VGA: 1 (shared with rear I/O VGA COM)

Block Diagram



- Serial: 2 (RS-232)
- SATA: 2 x SATA2 (3.0Gb/s)
- mPCIe: 1
- Parallel: 1
- mSATA: 1 (shared)
- IrDA: 0
- GPIO 8-bit: 4 x GPI + 4 x GPO
- SATA PWR Output Con: 1
- Speaker Header: 1

Watchdog Timer

- Output: From Super I/O to drag RESETCON#
- Interval: 256 segments, 0,1,2...255sec/min

Power Requirements

- Input PWR: 9-19V DC-In (4-pin ATX PWR Con)
- Power On: AT/ATX Supported
 - AT : Directly PWR on as Power input ready
 - ATX: Press Button to PWR on after Power input ready

Environment

- Temperature: 0°C – 60°C

Ordering Information

◆ NEX 617-DB (P/N: 10G00061700X0)

Mini-ITX form factor powered by onboard Baytrail family Intel® J1900 Celeron® 4-core processor that integrates with 24/48-bit LVDS & upto 8GB DDR3/L memory & Rich I/Os

◆ NEX 617-20PBK (P/N: 10G00061701X0)

20-in-1 Bulk-Packed Mini-ITX form factor powered by onboard Baytrail family Intel® J1900 Celeron® 4-core processor that integrates with 24/48-bit LVDS & upto 8GB DDR3/L memory & Rich I/Os

◆ I/O Bracket for NEX 617 (P/N: 50201A6003X00)

NEX 617 I/O PANEL ver.A for I/O shield for 261D 159.2 x 44.9 mm