

NP93 Series

PICO-ITX size Embedded Motherboard with Intel® Bay Trail-M SoC Processor, DDR3L up to 2GB, support dual display

Features

1. Intel® Bay Trail-M SoC Processor
2. On-board 2GB DDR3L 1333MHz System Memory
3. Support 1* Serial ATAII (3Gb/s) Device
4. Integrated Realtek ALC888S HD Audio CODEC with 4-CH
5. 1* 24-bits Dual channel LVDS header
6. Support 1* HDMI (option VGA) Output
7. Supports 1* Realtek RTL8111H GbE
8. 12V DC-in



intel. FC CE RoHS COMPLIANT

Overview

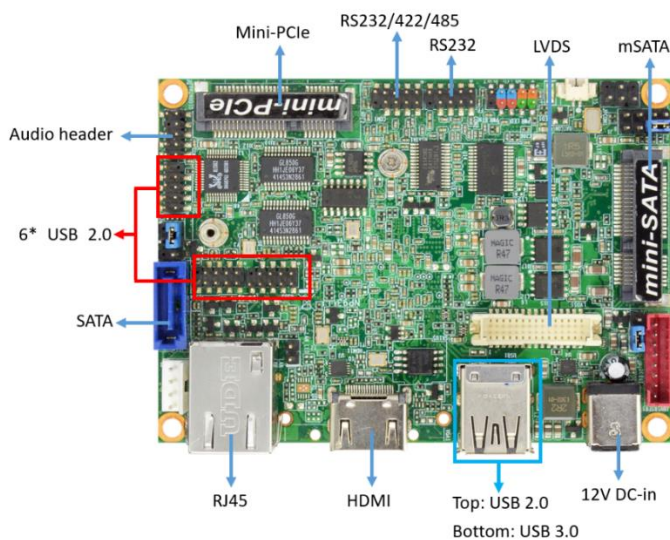
The JETWAY NP93 Series adopts the Intel® Bay Trail-M SoC processor. The NP93 Series equipped with one DDR3L 1333MHz onboard up to 2GB, one SATA and one mSATA (full size) which is suitable for most of the Digital Signage applications.

In addition, it offers flexible expansion with Mini-PCIe half size slot which can connect other add-on modules. The NP93 Series also has one USB 3.0, seven USB 2.0, one RS232 and one RS232/422/485. Customers can connect different peripherals to meet their needs. The NP93 Series also support one HDMI or VGA and one LVDS Dual display which can be used for Digital Signage needs. All of the NP93 Series designs provide rich features with small dimension.

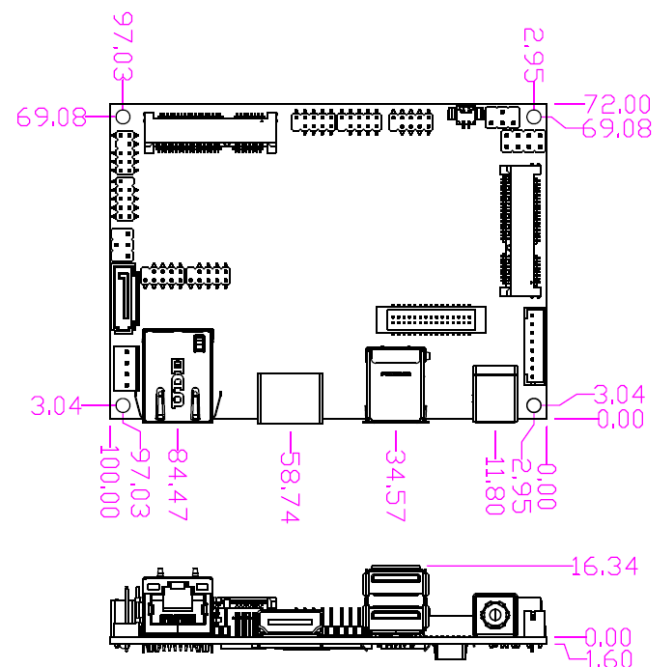
Application

Digital Signage / Intelligent Home / IOT Solution

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model

JNP93-2930 (N2930) Quad Core 1.83GHz SoC (TDP 7.5W)
JNP93-2807 (N2807) Dual Core 1.58GHz SoC (TDP 4.3W)

Processor System

- Intel® Bay Trail-M SoC Processor
- UEFI BIOS

Storage

- 1* SATAII (3 Gb/s)
- 1* mSATA (full size)

Ethernet

1* Realtek RTL8111H GbE

Audio

HD audio: Realtek ALC888S

Internal I/O

- 6* USB2.0
- 1* SATAII
- 1* LVDS
- 2* COM (one support RS232/422/485 with 5V/12V selectable header)
- 1* Audio Header
- 1* AT mode

Power

12V DC-in PWR (2-pin PWR Connector)

- AT: Directly PWR on as Power input ready
- ATX: Press Button to PWR on after Power input ready

Temperature

- Operating Temperature: -20 ~ 60° C
- Storage Temperature: -40 ~ 70° C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

Warranty

2 Years limited warranty

Form Factor

PICO (100 * 72mm)

Memory

2GB onboard DDR3L 1333MHz Single Channel

Expansion

1* Mini-PCIe (half size)

Graphics

- Intel® HD Graphics, shared memory
- 1* VGA (Option with HDMI, Max Resolution: 1920x1200@60Hz)
- 1* HDMI (Option with VGA, Max Resolution: 1920x1200@60Hz)
- 1* 24-bits Dual channel LVDS (Max Resolution: 1920x1200@60Hz)
- Support Dual Displays

Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments (10sec ~ 255min)

External I/O

Rear:

- 1* RJ45
- 1* USB 3.0
- 1* USB 2.0
- 1* VGA (option with HDMI)
- 1* HDMI (option with VGA)
- 12V DC-in

Compliance

CE, FCC, RoHS, REACH

OS Support

Win7 SP1 32-bit, Win7 SP1 64-bit, Win8 32-bit, Win8 64-bit, Win8.1 32-bit, Win8.1 64-bit, Win10 32-bit, Win10 64-bit, Win 10 IoT Enterprise 64-bit, POSready 7 32bit, POSready 7 64bit, WE Standard 7 SP1 32-bit, WE Standard 7 SP1 64-bit, WE Standard 8 32-bit, WE Standard 8 64-bit, CentOS (Version 6.5), Debian (Version 7.6), Fedora workstation (Version 20), openSUSE (Version 13.1), Ubuntu workstation (Version 14.04), pfSense (Version 2.2), RedHat Enterprise (Version 7.0), Android (Version 4.4.2_r1-ia2)

* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Ordering Info

Part Number	Description
	NP93 Series M/B
G01-SATA-BK-B-2F	1* SATA cable
G01-PW4PS2S-322-1F	1* SATA Power Y cable
G01-COM-H2M22-1F	1* COM cable
F05-JNP93-3F	1* Black Fin type Heatsink