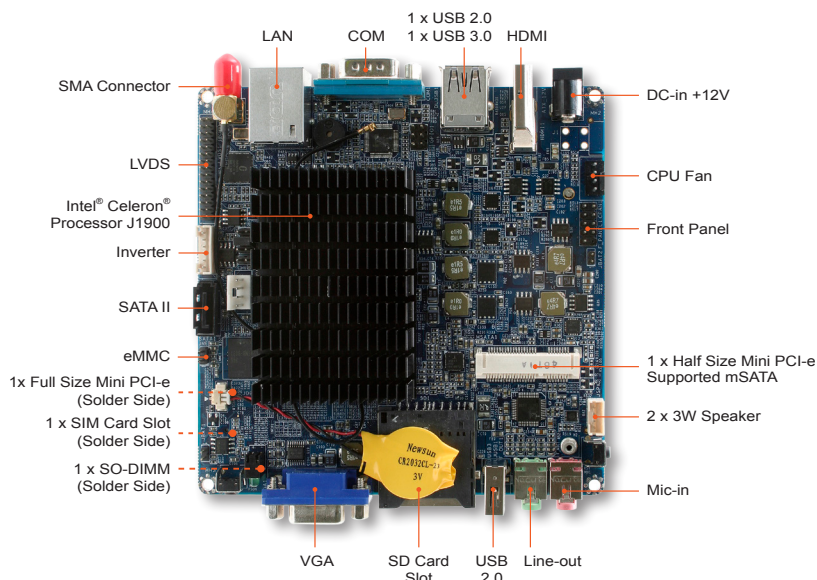




## Features

- Intel® Celeron® Processor J1900 (2M Cache, Up to 2.42 GHz)
- One 204-Pin DDR3L 1333 SO-DIMMs Up to 8 GB
- Onboard eMMC (32GB)
- VGA, HDMI, Dual-channel 18/24-bit LVDS
- 1 x Realtek RTL8111G PCI-e Gigabit Ethernet
- Realtek ALC662 2-CH Audio Codec
- Realtek ALC105 3W Stereo Class-D Audio amplifier
- 1 x Line-out, 1 x Mic-in
- 1 x SATA II, 1 x SATA Power
- 2 x USB 2.0, 1 x USB 3.0
- 1 x RS-232 (Pin9 Without Power)
- 1 x SD card slot, 1 x 4bit GPIO, 1 x SIM card slot
- 1 x Mini PCI-e Supported mSATA, 1 x Mini PCI-e
- 1 x SMA connector
- DC in +12V



## Specifications

### System

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| <b>Processor</b>          | Intel® Celeron® Processor J1900 (2M Cache, Up to 2.42 GHz) |
| <b>BIOS</b>               | AMI uEFI BIOS, 64Mbit SPI Flash ROM                        |
| <b>I/O Chip</b>           | iTE 8772E                                                  |
| <b>System Memory</b>      | 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB               |
| <b>Watchdog Timer</b>     | H/W Reset, 1sec. ~ 65535sec.                               |
| <b>H/W Status Monitor</b> | Monitoring CPU & System Temperature and Voltage            |

### Expansion & Storage

|                  |                                                                                           |
|------------------|-------------------------------------------------------------------------------------------|
| <b>Expansion</b> | 1 x Half size Mini PCI-e supported mSATA<br>1 x Full size Mini PCI-e<br>1 x SIM Card slot |
| <b>Storage</b>   | Onboard eMMC (32GB)                                                                       |

### I/O

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| <b>USB</b>      | 2 x USB 2.0, 1 x USB 3.0                                                        |
| <b>SATA</b>     | 1 x SATA II                                                                     |
| <b>COM Port</b> | 1 x RS-232                                                                      |
| <b>Other</b>    | 1 x Power on/off with Power LED button<br>1 x Power button<br>1 x SMA connector |
| <b>DIO</b>      | 1 x 4 bit GPIO                                                                  |

### Display

|                   |                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chipset</b>    | Intel® Atom™/ Celeron® SoC integrated Graphics                                                                                                           |
| <b>Resolution</b> | HDMI : 1920 x 1080 @ 60Hz<br>VGA : 2560 x 1600 @ 60Hz<br>LVDS : 1920 x 1200 @ 60Hz<br>HDMI + VGA, HDMI + LVDS, VGA + LVDS<br>Dual channel 18/24 bit LVDS |

### Audio

|                        |                                                  |
|------------------------|--------------------------------------------------|
| <b>Audio Codec</b>     | Realtek ALC662 supports 2-CH                     |
| <b>Audio Interface</b> | Mic-In and Line-Out                              |
| <b>Audio Amplifier</b> | Realtek ALC105 3W Stereo Class-D Audio Amplifier |

### Ethernet

|                           |                                    |
|---------------------------|------------------------------------|
| <b>Chipset</b>            | 1 x RTL8111G                       |
| <b>Ethernet Interface</b> | 10/100/1000 Base-Tx GbE compatible |
| <b>LAN Port</b>           | 1 x RJ-45                          |

### Power Requirement

|                              |                                           |
|------------------------------|-------------------------------------------|
| <b>Power Requirement</b>     | +12V                                      |
| <b>Power Type</b>            | ATX                                       |
| <b>Operating Temperature</b> | 0°C ~ 60°C (32°F ~ 140°F)                 |
| <b>Storage Temperature</b>   | -40°C ~ 75°C (-40°F ~ 167°F)              |
| <b>Operating Humidity</b>    | 0 ~ 90% Relative Humidity, Non-condensing |
| <b>Size (L x W)</b>          | 4.72" x 4.72" (120mm x 120mm)             |
| <b>Weight</b>                | 0.88lbs (0.4Kg)                           |

## Ordering Information

SENX-BYT190-A1R

Intel® Celeron® Processor J1900 Nano ITX Motherboard

CH3

Embedded Computing-Semi-Industrial Solutions