

# NANO-BTW2

EPIC SBC supports 22nm Intel® Atom™ /Celeron® on-board SoC



## Features

- » EPIC SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC
- » Supports dual independent display with LVDS, VGA and HDMI™
- » 1.35V DDR3L 1333/1066 MHz SDRAM support up to 8 GB
- » Support IPMI 2.0 with iRIS-1010 module
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

|                                 |   |
|---------------------------------|---|
| <b>System</b>                   |   |
| CPU                             | Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)<br>Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)<br>Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W) |
| Memory                          | One 204-pin 1333/1066 MHz single-channel unbuffered DDR3L SDRAM SO-DIMM   |
| Memory Max.                     | 8 GB  |
| <b>Physical Characteristics</b> |   |
| Dimensions (LxWxH) (mm)         | 115 X 165   |
| Net Weight                      | 350g  |
| <b>Storage</b>                  |   |
| Storage                         | 2 x SATA :3Gb/s with 5V SATA power connector(no RAID)<br>1 x SD/MicroSD card  |
| <b>I/O Interface</b>            |   |
| Display Output                  | 1 x VGA :up to 2560x1600@60Hz<br>1 x HDMI™ :up to 1920x1080@60Hz<br>1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)   |
| Ethernet                        | 2 x LAN :LAN1: Intel® I210-IT PCIe controller with NCSI support<br>LAN2: Intel® I210-IT PCIe controller   |
| Audio                           | Description: Realtek ALC662 HD Audio codec<br>1 x Front Audio :2x5 pin  |
| I/O Interface                   | 3 x Internal RS-232 :2x5 pin, p=2.0<br>1 x Internal RS-422/485 :1 x4 pin, p=2.0<br>1 x External USB 2.0<br>1 x External USB 3.2 Gen1x1<br>3 x Internal USB 2.0 :2x4 pin, p=2.0<br>1 x PS/2  |
| Expansion                       | 1 x PCIe mini Card Slot :Full-size PCIe Mini card slot (support mSATA co-lay SATA port 2)<br>1 x PC/104 :PCI signal   |
| <b>Other Features</b>           |   |
| iRIS                            | 1 X iRIS-1010 slot  |
| <b>Power</b>                    |   |
| Power Consumption               | 12V@1.52A (Intel® Atom™ processor J1900 with one 8 GB 1333 MHz DDR3 memory)   |
| Power Supply                    | 12V only DC input<br>1 x Internal power connector (2x2 pin)   |

|                       |                          |
|-----------------------|--------------------------|
|                       | Support AT/ATX mode      |
| Environment           |                          |
| Operating Temperature | -40°C ~ 85°C             |
| Storage Temperature   | -40°C ~ 85°C             |
| Humidity              | 5% ~ 95%, non-condensing |
| Certifications        |                          |
| Safety & EMC          | CE/FCC compliant         |

## Ordering Information

|                        |   |
|------------------------|---|
| NANO-BT-J19001-ECO-R11 | Intel 22nm Quad-Core Celeron J1900 2.0GHz (10W) on-board SoC with VGA/HDMI™/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA, mSATA, COM, Audio, ECO packing and RoHS  |
| NANO-BT-E38451W2-R11   | EPIC SBC supports Intel 22nm Quad-Core Atom E3845 1.91GHz (10W) on-board SoC with VGA/HDMI™/LVDS, Dual PCIe GbE, USB 3.0, Dual PCIe Mini, SATA 3Gb/s, mSATA, COM, audio and RoHS, Extend operating temperature: -40°C ~ +85°C |

## Packing List

|   |                                    |
|---|------------------------------------|
| 1 x NANO-BTW2 single board computer with heatsink | 1 x Power cable                    |
| 2 x RS-232 cable                                  | 1 x QIG (Quick Installation Guide) |
| 2 x SATA with power cable kit                     |                                    |