

# 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)
	Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
	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)
	1 x SD/MicroSD card
<b>I/O Interface</b>	
Display Output	1 x VGA :up to 2560x1600@60Hz
	1 x HDMI™ :up to 1920x1080@60Hz
	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
	LAN2: Intel® I210-IT PCIe controller
Audio	Description: Realtek ALC662 HD Audio codec
	1 x Front Audio :2x5 pin
I/O Interface	3 x Internal RS-232 :2x5 pin, p=2.0
	1 x Internal RS-422/485 :1 x4 pin, p=2.0
	1 x External USB 2.0
	1 x External USB 3.2 Gen1x1
	3 x Internal USB 2.0 :2x4 pin, p=2.0
	1 x PS/2
Expansion	1 x PCIe mini Card Slot :Full-size PCIe Mini card slot (support mSATA co-lay SATA port 2)
	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
	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	