

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

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|---------------------------------|---|
| System | |
| 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 |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 115 X 165 |
| Net Weight | 350g |
| Storage | |
| Storage | 2 x SATA :3Gb/s with 5V SATA power connector(no RAID) |
| | 1 x SD/MicroSD card |
| I/O Interface | |
| 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 |
| Other Features | |
| iRIS | 1 X iRIS-1010 slot |
| Power | |
| 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) |

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|-----------------------|--------------------------|
| | 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

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|------------------------|---|
| 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

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|---|------------------------------------|
| 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 | |