

# KINO-DBT

Mini-ITX SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC,



## Features

- » Mini-ITX SBC with 22nm Intel® Atom™ on-board SoC
- » 1.35V DDR3L 1066/1333 MHz SDRAM supporting up to 8 GB of memory
- » Dual independent display support
- » COM, USB 3.0, SATA 6Gb/s, PCIe Mini, mSATA and HD Audio support
- » Support Intel® VT-x technology

## Specifications

| System                   |  |
|--------------------------|--|
| CPU                      | Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)<br>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™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)<br>Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)<br>Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)<br>Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)<br>Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.5W) |
| Memory                   | Two 204-pin 1066/1333 MHz dual-channel unbuffered DDR3L SDRAM SO-DIMM  |
| Memory Max.              | 8 GB (J1900, N2930, E3845, E3827, E3826, E3825, E3815) or 4 GB (N2807)   |
| Physical Characteristics |  |
| Dimensions (LxWxH) (mm)  | 170 X 170  |
| Net Weight               | 400g   |
| Storage                  |  |
| Storage                  | 2 x SATA :3Gb/s<br>1 x mSATA :colay STAT2<br>1 x SD/MicroSD card :E38XX sku only   |
| I/O Interface            |  |
| Display Output           | 1 x VGA :up to 2560x1600@60Hz<br>1 x DVI-D :up to 1920x1080@60Hz<br>1 x iDP :interface for HDMI™, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)  |
| Ethernet                 | 2 x LAN : (detail as below)<br>LAN1: Realtek RTL8111HN PCIe GbE controller<br>LAN2: Realtek RTL8111HN PCIe GbE controller  |
| Audio                    | Description: Realtek ALC662 HD Audio codec supports 5.1-channel<br>1 x Line in :on rear IO<br>1 x Line out :on rear IO   |

|                       |   |
|-----------------------|---|
|                       | 1 x Mic :on rear IO   |
|                       | 1 x S/PDIF :1x5 pin   |
|                       | 1 x Front Audio :2x5 pin  |
| I/O Interface         | 2 x External RS-232   |
|                       | 3 x Internal RS-232 :2x5 pin, p=2.0                                   |
|                       | 1 x Internal RS-422/485 :1x4 pin, p=2.0                               |
|                       | 2 x External USB 2.0  |
|                       | 2 x External USB 3.2 Gen1x1   |
|                       | 4 x Internal USB 2.0 :2x4 pin, p=2.0                                  |
|                       | 1 x PS/2 :1x6 pin   |
| Expansion             | 1 x PCIe x4 :with PCIe X 1 signal                                     |
|                       | 1 x PCIe mini Card Slot :Full-Size slot                               |
| <b>Other Features</b> |   |
| TPM                   | 2x10 pin  |
| <b>Power</b>          |   |
| Power Consumption     | 12V@1.64A (Intel® Celeron® J1900 CPU with 4 GB 1333 MHz DDR3L memory) |
| Power Supply          | 12V DC input  |
|                       | 1 x External DC jack (4-pin DIN)                                      |
|                       | 1 x Internal power connector (2x2 pin)                                |
| <b>Environment</b>    |   |
| Operating Temperature | -20°C ~ 60°C  |
| Storage Temperature   | -30°C ~ 70°C  |
| Humidity              | 5% ~ 95%, non-condensing  |
| <b>Certifications</b> |   |
| Safety & EMC          | CE/FCC compliant  |

## Ordering Information

|                     |   |
|---------------------|---|
| KINO-DBT-N29301-R10 | Mini-ITX SBC supports Intel® Celeron® Quad-Core Processor N2930(7.5W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS |
| KINO-DBT-N28071-R10 | Mini-ITX SBC supports Intel® Celeron® Dual-Core Processor N2807(4.3W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS |
| KINO-DBT-J19001-R10 | Mini-ITX SBC supports Intel® Celeron® Quad-Core Processor J1900(10W), VGA/DVI/iDP, Dual Realtek® PCIe GbE, USB 3.0, SATA, HD Audio, RoHS  |

## Packing List

|                                    |  |
|------------------------------------|--|
| 1 x KINO-DBT single board computer | 1 x SATA cable with power output cable |
| 1 x IO shielding                   | 1 x QIG                                |