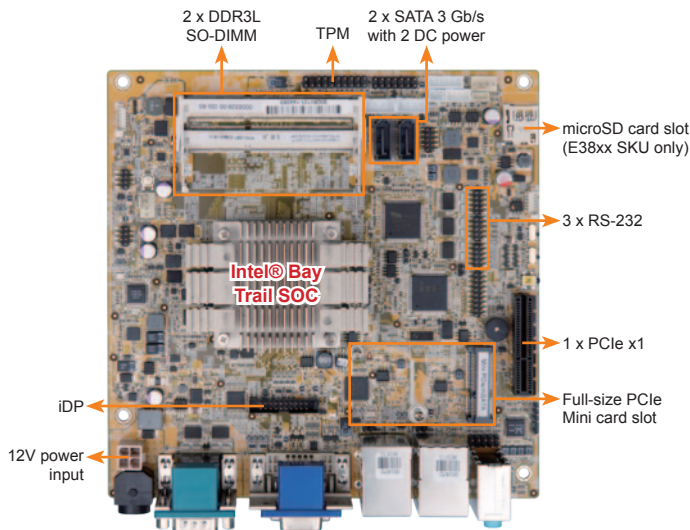


KINO-DBT

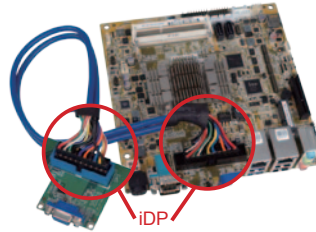
Mini-ITX SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC, VGA/DVI/iDP, dual Realtek PCIe GbE, USB 3.0, SATA, HD Audio, RoHS



Specifications

- ◆ SoC
 - Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
 - 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™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)
 - Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)
 - Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
 - Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
 - Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.5W)
- ◆ BIOS
 - AMI UEFI BIOS
- ◆ Memory
 - Two 204-pin 1066/1333 MHz dual-channel unbuffered DDR3L SDRAM SO-DIMM support up to 8 GB (J1900, N2930, E3845, E3827, E3826)
 - One 204-pin 1066/1333 MHz dual-channel unbuffered DDR3L SDRAM SO-DIMM supports up to 4 GB (N2807, E3825, E3815)
- ◆ Graphics Engine
 - Intel® HD Graphics Gen 7 engine with 4 execution units, supporting DX11.1, OpenGL 4.2 and OpenCL1.2
- ◆ Display Output
 - Dual independent display
 - VGA (up to 2560x1600@60 Hz)
 - DVI-D (up to 1920x1080@60 Hz)
 - iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60 Hz)
- ◆ Ethernet
 - Dual Realtek RTL8111E PCIe GbE controller
- ◆ External I/O Interface
 - 2 x RS-232
 - 2 x USB 2.0
 - 2 x USB 3.0
- ◆ Internal I/O Interface
 - 1 x KB/MS (1x6 pin)
 - 1 x RS-422/485 (1x4 pin, P=2.0)
 - 4 x USB 2.0 (2x4 pin, P=2.0)
 - 3 x RS-232 (2x5 pin, P=2.54)
 - 2 x SATA 3Gb/s with 5V, 12V SATA power connector
- ◆ SMBus
 - 1 x SMBus (1x4 pin)
- ◆ TPM
 - 1 x TPM connector (2x10 pin)
- ◆ Audio
 - Realtek ALC662 HD Audio codec supports 5.1-channel
 - 3 x Audio jacks (line-out, line-in, mic-in) on rear IO
 - 1 x Front audio (2x5-pin)
- ◆ Front Panel
 - 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ Expansion
 - 1 x Full-size PCIe Mini card slot
 - 1 x microSD slot (E38XX SKU only)
 - 1 x PCIe x4 slot (with PCIe x1 signal)
 - 1 x mSATA share with SATA port 2
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
 - 1 x CPU smart fan (1x4 pin)
 - 1 x System smart fan (1x4 pin)
- ◆ Power Supply
 - 12V DC input
 - 1 x External 4-pin DIN DC jack
 - 1 x Internal 4-pin (2x2) power connector
- ◆ Power Consumption
 - 12V@1.64A (Intel® Celeron® J1900 CPU with 4 GB 1333 MHz DDR3L memory)
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW:900g/NW: 400g

iDP (IEI Internal DisplayPort)

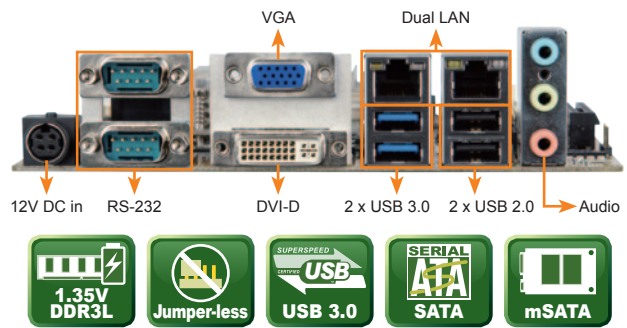
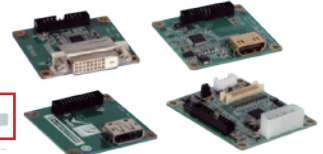


Easy Installation on the Chassis

iDP converter cards with brackets



| Model | Output | External Power |
|-------------|--------|----------------|
| DP-VGA-R10 | VGA | No |
| DP-HDMI-R10 | HDMI | No |
| DP-DVI-R10 | DVI | No |
| DP-LVDS-R10 | LVDS | Yes |
| DP-DP-R10 | DP | No |



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

Packing List

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

Ordering Information

| Part No. | Description |
|-----------------------|---|
| KINO-DBT-J19001-R10 | Mini-ITX SBC supports Intel® Celeron® quad-core processor J1900 (10W), VGA/DVI/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio and RoHS |
| KINO-DBT-N29301-R10 | Mini-ITX SBC supports Intel® Celeron® quad-core processor N2930 (7.5W), VGA/DVI/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio and RoHS |
| KINO-DBT-N28071-R10 | Mini-ITX SBC supports Intel® Celeron® dual-core processor N2807 (4.5W), VGA/DVI/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio and RoHS |
| KINO-DBT-E38XX1-R10** | Mini-ITX SBC supports Intel® Atom™ processor E38XX, VGA/DVI/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio and RoHS |
| 32006-000300-100-RS | PS/2 KB/MS Y-cable without bracket, 140mm/120mm |
| 32205-002700-100-RS | RS-232 cable, 200mm, P=2.0 |
| 32205-003800-300-RS | RS-422/485 cable, 200mm, P=2.0 |
| DP-DP-R10 | DisplayPort to DisplayPort converter board (for IEI iDP connector) |
| DP-DVI-R10 | DisplayPort to DVI-D converter board (for IEI iDP connector) |
| DP-HDMI-R10 | DisplayPort to HDMI converter board (for IEI iDP connector) |
| DP-LVDS-R10 | DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector) |
| DP-VGA-R10 | DisplayPort to VGA converter board (for IEI iDP connector) |
| TPM-IN01-R11 | 20-pin Infineon TPM module, software management tool, firmware v3.17 |

**By order production, MOQ: 100

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[GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-OLINUXINO-LIME2-](#)
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