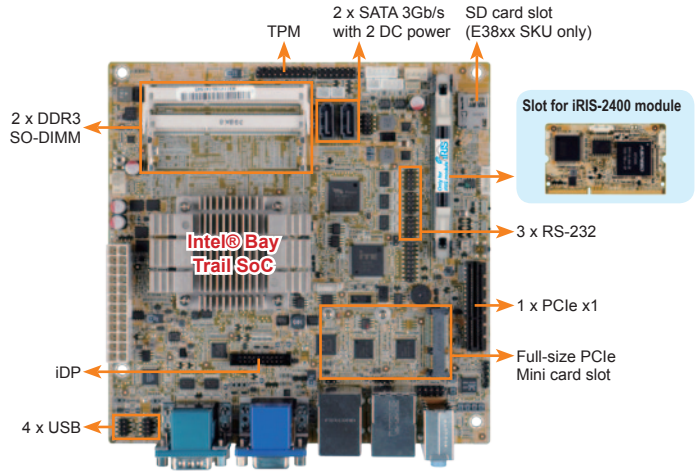
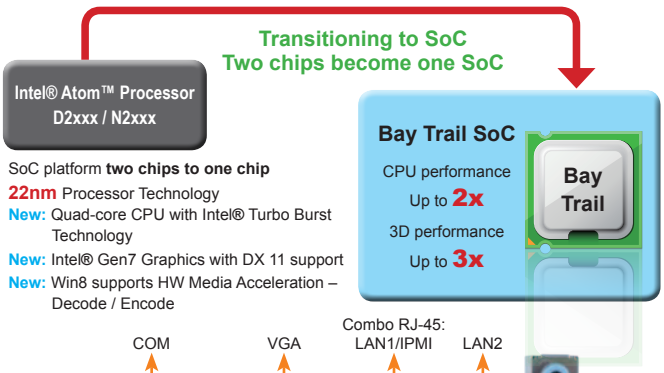
KINO-ABT-i2

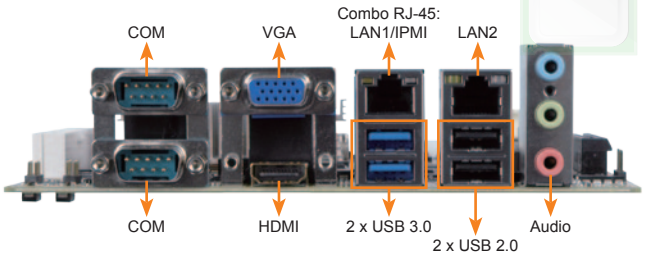
Mini-ITX SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC, VGA/HDMI/iDP, dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio, iRIS-2400 and RoHS



Intel® Bay Trial Platform Transition



SoC platform **two chips to one chip**
22nm Processor Technology
New: Quad-core CPU with Intel® Turbo Burst Technology
New: Intel® Gen7 Graphics with DX 11 support
New: Win8 supports HW Media Acceleration – Decode / Encode



IPMI 2.0 Compliant | 1.35V DDR3L | Jumper-less | USB 3.0 | Dual GbE | mSATA

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=4.3W)
- 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 Engines with 4 execution units, supporting DX11.1, OpenGL 4.2 and OpenCL1.2
- Display Output
  Dual Independent Display
  VGA (up to 2560x1600@60Hz)
  HDMI (up to 2560x1600@60Hz)
  iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
- Ethernet
  LAN1: Intel® I210-AT PCIe controller with NCSI support (for iRIS solution)
  LAN2: Intel® I211-AT PCIe 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
  1 x microSD slot (E38xx sku only)
  1 x RS-422/485(1x4 pin, P=2.00)
  2 x SATA 3Gb/s
  3 x RS-232 (2x5 pin, P=2.54)
  4 x USB 2.0 (2x4 pin, P=2.00)
- SMBus
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- TPM
  1 x TPM connector (2x10 pin)
- Audio
  Realtek ALC662 HD Audio codec support 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 (supports mSATA, co-lay SATA port 2)
  1 x PCIe x4 slot (PCIe x1 signal)
- iRIS Remote Management Module
  1 x iRIS-2400 slot
- 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: ATX power supply
- Watchdog Timer: Software programmable, supports 1~255 sec. system reset
- Power Consumption
  5V@1.71A, 12V@0.08A, Vcore_12V@0.27A, 3.3V@0.34
  (Intel® Celeron® J1900 CPU with two 4 GB 1333 MHz DDR3 memory)
- 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: 450g

Features

- Mini-ITX SBC supports 22nm Intel® Atom™ or Celeron® on-board SoC
- 1066/1333 MHz 1.35V DDR3L SDRAM supported up to 8 GB
- Supports dual independent display with VGA, HDMI and iDP
- COM, USB 3.0, SATA, PCIe Mini, mSATA and HD Audio support
- Supports IPMI 2.0 via iRIS-2400 module
- Supports Intel® VT-x technology
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x KINO-ABT-i2 single board computer	1 x IO shielding
1 x Dual-port USB cable	1 x QIG (Quick Installation Guide)
1 x SATA cable	1 x Utility CD

Ordering Information

Part No.	Description
KINO-ABT-i2-J19001-R10	Mini-ITX SBC supports Intel® Celeron® quad-core processor J1900 (10W), VGA/HDMI/iDP, dual Intel® PCIe GbE, SATA, USB 3.0, HD Audio, iRIS-2400 and RoHS
KINO-ABT-i2-N29301-R10	Mini-ITX SBC supports Intel® Celeron® quad-core processor N2930 (7.5W), VGA/HDMI/iDP, dual Intel® PCIe GbE, SATA, USB 3.0, HD Audio, iRIS-2400 and RoHS
KINO-ABT-i2-N28071-R10	Mini-ITX SBC supports Intel® Celeron® dual-core processor N2807 (4.3W), VGA/HDMI/iDP, dual Intel® PCIe GbE, SATA, USB 3.0, HD Audio, iRIS-2400 and RoHS
KINO-ABT-i2-E38XX1-R10**	Mini-ITX SBC supports Intel® Atom™ processor E38XX, VGA/HDMI/iDP, dual Intel® PCIe GbE, SATA, USB 3.0, HD Audio, iRIS-2400 and RoHS
KINO-ABT-J19001-ECO-R10	Mini-ITX SBC supports Intel® 22nm Celeron® J1900 2.0GHz (10W) on-board (10W), VGA/HDMI/iDP, dual Intel® PCIe GbE, USB 3.0, SATA, HD Audio, ECO packing and RoHS (10 pce/pack)
32006-000300-100-RS	PS/2 KB/MS Y-cable without bracket
32200-000049-RS	RS-232 cable, 200mm, DB-9 2x5P P=2.0
32205-003800-300-RS	RS-422/485 cable
32205-003800-300-RS	RS-422/485 cable, 200mm
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