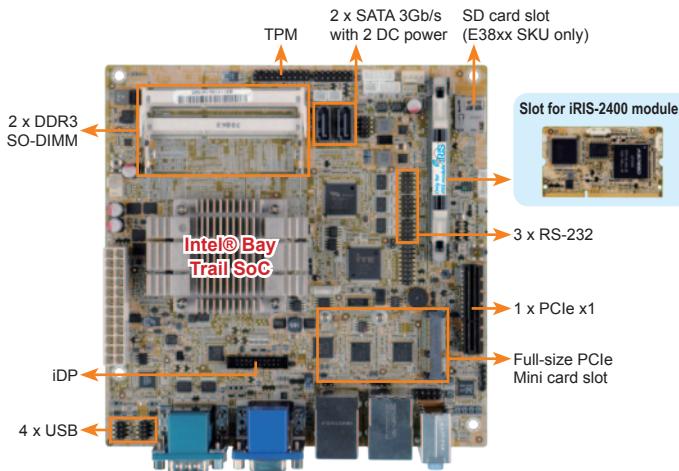


KINO-ABT-i2

Mini-ITX SBC supports Intel® 22nm 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 Trail Platform Transition



Transitioning to SoC
Two chips become one SoC



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

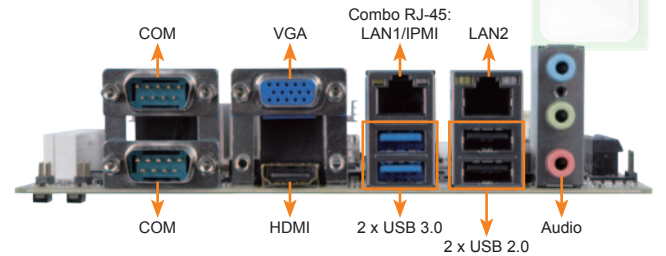
Bay Trail SoC

CPU performance

Up to **2x**

3D Performance

Up to **3x**



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 1066/1333MHz dual-channel DDR3L SO-DIMM support up to 8 GB (J1900, N2930, E3845, E3827, E3826) or 4 GB (N2807, E3825, E3815)
- ◆ Graphics Engine
 - Intel® HD Graphics Gen 7 Engines with 4 execution units, supporting DX11.1, OpenGL 4.2 and OpenCL 1.2
- ◆ 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
- ◆ Super I/O
 - Fintek F81866D-I
- ◆ I/O Interface
 - 1 x PS/2 KB/MS
 - 1 x microSD slot (E38XX SKU only)
 - 2 x USB 3.0 (on rear I/O)
 - 6 x USB 2.0 (2 on rear I/O, 4 by pin header)
 - 1 x RS-422/485 (by pin header)
 - 5 x RS-232 (2 on rear I/O, 3 by pin header)
 - 2 x SATA 3Gb/s with 5V SATA power connector (no RAID)
- ◆ SMBus
 - 1 x 4-pin (1x4) wafer
- ◆ I2C
 - 1 x 4-pin (1x4) wafer
- ◆ TPM
 - 1 x TPM connector (2x10 pin)
- ◆ Audio
 - Realtek ALC662 HD codec supports 5.1 channel
- ◆ Front Panel
 - 1 x 6-pin (1x10) wafer for power LED & HDD LED
 - 1 x 2-pin (1x2) wafer for power button
 - 1 x 2-pin (1x2) wafer for power reset
- ◆ LAN LED
 - 2 x 2-pin (1x2) header
- ◆ 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 (4-bit input, 4-bit output)
- ◆ Fan Connector
 - 1 x 4-pin smart fan connector
 - 1 x 4-pin system fan connector
- ◆ 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, 2 x 4GB 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 Intel® 22nm Atom™ or Celeron® on-board SoC
- 1066/1333 MHz 1.35V DDR3L SDRAM supported up to 8GB
- 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 Dual-port USB cable (P/N:19800-003100-300-RS)	
1 x SATA cable (P/N: 32801-000201-300-RS)	1 x QIG (Quick Installation Guide)
1 x IO shielding	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
32205-003800-300-RS	RS-422/485 cable
32200-000049-RS	RS-232 cable, 200mm, DB-9 2x5P P=2.0
32006-000300-100-RS	PS/2 KB/MS Y-cable without bracket
32205-003800-300-RS	RS-422/485 cable, 200mm
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

** : Those item are by order production, MOQ: 100